

Dear Children,

In this book you will be meeting a lot of living things, some of which you know already and others you have probably never seen, and you will have an opportunity to become acquainted with their worlds. As you read this book you will be amazed to see how these lovable creatures manage to accomplish difficult seeming tasks. Children, as you see the beauties in these living things and learn about the tasks they perform, you must think about the infinite might and art of creation of Allah, the Creator of them all. At the same time, you must give thanks to Allah, Who has created so many beauties for us, and you must love Him deeply. That is what our Lord, Allah, wants us to do.





About the Author: Adnan Oktar, who writes under the pen-name Harun Yahya, was born in Ankara in 1956. Since the 1980s, the author has published many books on faith-related, scientific and political issues. He is well-known as the author of important works disclosing the imposture of evolutionists, their invalid claims, and the dark liaisons between Darwinism and such bloody ideologies as fascism and communism.

All of the author's works share one single goal: to convey the Koran's message, encourage readers to consider basic faith-related issues such as God's existence and unity and the Hereafter; and to expose irreligious systems' feeble foundations and perverted ideologies. His more than 300 works, translated into 73 different languages, enjoy a wide readership across the world.

By the will of God, the books of Harun Yahya will be a means through which people in the twenty-first century will attain the peace, justice, and happiness promised in the Koran.









WONDERFUL CREATURES





ABOUT THE AUTHOR

Now writing under the pen-name of HARUN YAHYA, Adnan Oktar was born in Ankara in 1956. Having completed his primary and secondary education in Ankara, he studied fine arts at Istanbul's Mimar Sinan University and philosophy at Istanbul University. Since the 1980s, he has published many books on political, scientific, and faith-related issues. Harun Yahya is well-known as the author of important works disclosing the imposture of evolutionists, their invalid claims, and the dark liaisons between Darwinism and such bloody ideologies as fascism and communism.

Harun Yahya's works, translated into 72 different languages, constitute a collection for a total of more than 55,000 pages with 40,000 illustrations.

His pen-name is a composite of the names Harun (Aaron) and Yahya (John), in memory of the two esteemed Prophets who fought against their peoples' lack of faith. The Prophet's seal on his books' covers is symbolic and is linked to their contents. It represents the Qur'an (the Final Scripture) and Prophet Muhammad (saas), last of the prophets. Under the guidance of the Qur'an and the Sunnah (teachings of the Prophet [saas]), the author makes it his purpose to disprove each fundamental tenet of irreligious ideologies and to have the "last word," so as to completely silence the objections raised against religion. He uses the seal of the final Prophet (saas), who attained ultimate wisdom and moral perfection, as a sign of his intention to offer the last word.

All of Harun Yahya's works share one single goal: to convey the Qur'an's message, encourage readers to consider basic faith-related issues such as Allah's existence and unity and the Hereafter; and to expose irreligious systems' feeble foundations and perverted ideologies.

Harun Yahya enjoys a wide readership in many countries, from India to America, England to Indonesia, Poland to Bosnia, Spain to Brazil, Malaysia to Italy, France to Bulgaria and Russia. Some of his books are available in English, French, German, Spanish, Italian, Portuguese, Urdu, Arabic, Albanian, Chinese, Swahili, Hausa, Dhivehi (spoken in Maldives), Russian, Serbo-Croat (Bosnian), Polish, Malay, Uygur Turkish, Indonesian, Bengali, Danish and Swedish.

Greatly appreciated all around the world, these works have been instrumental in many people recovering faith in Allah and gaining deeper insights into their faith. His books' wisdom and sincerity, together with a distinct style that's easy to understand, directly affect anyone who reads them. Those who seriously consider these books, can no longer advocate atheism or any other perverted ideology or materialistic philosophy, since these books are characterized by rapid effectiveness, definite re-

sults, and irrefutability. Even if they continue to do so, it will be only a sentimental insistence, since these books refute such ideologies from their very foundations. All contemporary movements of denial are now ideologically defeated, by means the books written by Harun Yahya.

This is no doubt a result of the Qur'an's wisdom and lucidity. The author modestly intends to serve as a means in humanity's search for Allah's right path. No material gain is sought in the publication of these works.

Those who encourage others to read these books, to open their minds and hearts and guide them to become more devoted servants of Allah, render an invaluable service.

Meanwhile, it would only be a waste of time and energy to propagate other books that create confusion in people's minds, lead them into ideological confusion, and that clearly have no strong and precise effects in removing the doubts in people's hearts, as also verified from previous experience. It is impossible for books devised to emphasize the author's literary power rather than the noble goal of saving people from loss of faith, to have such a great effect. Those who doubt this can readily see that the sole aim of Harun Yahya's books is to overcome disbelief and to disseminate the Qur'an's moral values. The success and impact of this service are manifested in the readers' conviction.

One point should be kept in mind: The main reason for the continuing cruelty, conflict, and other ordeals endured by the vast majority of people is the ideological prevalence of disbelief. This can be ended only with the ideological defeat of disbelief and by conveying the wonders of creation and Qur'anic morality so that people can live by it. Considering the state of the world today, leading into a downward spiral of violence, corruption and conflict, clearly this service must be provided speedily and effectively, or it may be too late. In this effort, the books of Harun Yahya assume a leading role. By the will of Allah, these books will be a means through which people in the twenty-first century will attain the peace, justice, and happiness promised in the Qur'an.

- * A special chapter is assigned to the collapse of the theory of evolution because this theory constitutes the basis of all anti-spiritual philosophies. Since Darwinism rejects the fact of creation—and therefore, Allah's existence—over the last 150 years it has caused many people to abandon their faith or fall into doubt. It is therefore an imperative service, a very important duty to show everyone that this theory is a deception. Since some readers may find the opportunity to read only one of our books, we think it appropriate to devote a chapter to summarize this subject.
- * All the author's books explain faith-related issues in light of Qur'anic verses, and invite readers to learn Allah's words and to live by them. All the subjects concerning Allah's verses are explained so as to



leave no doubt or room for questions in the reader's mind. The books' sincere, plain, and fluent style ensures that everyone of every age and from every social group can easily understand them. As a result of their effective, lucid narrative, they can be read at one sitting. Even those who rigorously reject spirituality are influenced by the facts these books document and cannot refute the truthfulness of their contents.

* This and all the other books by the author can be read individu-

ally, or discussed in a group. Readers eager to profit from the books will find discussion very useful, letting them relate their reflections and experiences to one another.

* In addition, it will be a great service to Islam to contribute to the publication and reading of these books, written solely for the pleasure of Allah. The author's books are all extremely convincing. For this reason, to communicate true religion to others, one of the most effective methods is encouraging them to read these books.

* We hope the reader will look through the reviews of his other books at the back of this book. His rich source material on faith-



related issues is very useful, and a pleasure to read.

* In these books, unlike some other books, you will not find the author's personal views, explanations based on dubious sources, styles that are unobservant of the respect and reverence due to sacred subjects, nor hopeless, pessimistic arguments that create doubts in the mind and deviations in the heart.



Birinci Baskı: Aralık 2001 - İkinci Baskı: Aralık 2004 - Üçüncü Baskı: Şubat 2006 -Dördüncü Baskı: Ocak 2010

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pets such as cats, which we come across every day, to animals inhabiting virgin forests, every species has wondrous features and amazing skills. For example we are surprised to see how bees can build such perfect honeycombs and can do calculations as if they were expert mathematicians. As we see how considerate a crocodile or a lion is to its young, we wonder how such wild animals can behave so affectionately. We seek an answer to the question how can little birds, which cover thousands of kilometers during a non-stop migration, perform this hard task. The more detailed information we get, the more amazed we become.

Every living being has a particular body structure. Some fly, others swim. For example the body structure of a fish is exactly as it

needs for life underwater. It has the lungs, eyes and skin that enable it to live underwater. The lungs and feathers of birds have the structures that enable them to fly. There is no doubt that these living creatures did not by themselves obtain the skills or body structures with which they carry out extraordinary tasks. These laters are not the ones who invented the tasks, each of which is more astonishing than another. They could not possibly have learnt the tasks they carry out by chance either. It is not possible for them to know all these things unless there is someone who taught them everything they do.

Besides, there should be someone who created the structure they needed and placed it in their bodies. Allah gave them all the features they possess and is exalted in power and intelligence. Allah excellently created us and all other living things.

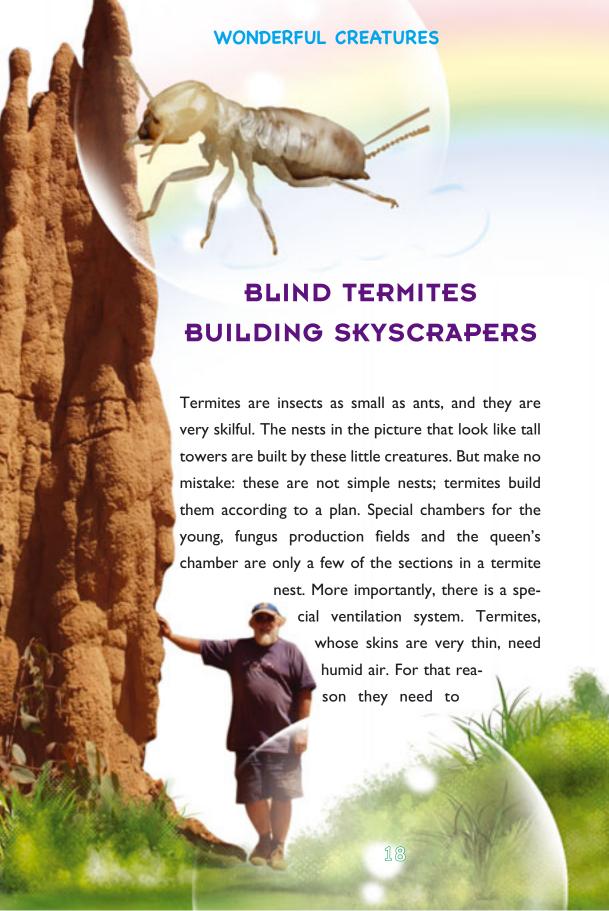
You may already know these facts, however there are some people who claim the opposite. Did you know that these people claim that living creatures obtained all the wonderful features they have by chance? And have you heard



He is Allah – the Creator, the Maker, the Giver of Form. To Him belong the Most Beautiful Names. Everything in the heavens and earth glorifies Him. He is the Almighty, the All-Wise. (Surat al-Hashr: 24)

claims of evolutionists, we will also show how senseless the theory is. As you read the book, you will be surprised to see how mistaken professors, engineers and scientists who believe in the theory of evolution could be. (For further information about evolutionists see Wonders of Allah's Creation by Harun Yahya, Taha Publishers, London, 2002.)

In fact, factual information about living creatures is too abundant to be collected even in volumes of books. For this reason only some examples will be examined in this book. Yet, even with these few examples, you will be able to better comprehend the greatness of Allah, Who created these pretty creatures for us, and how much He loves us. You will reflect on what you'll learn and will be eager to tell it to others.



keep the temperature and humidity of the nest at a certain level. Otherwise, the termites would die. They make the air circulate through the nest by means of special channels and use the water that comes from underground tunnels they have dug, and thus regulate the temperature and humidity.

Do you realize how hard this process is, and that termites have to act in a way marked by careful consideration of many things together? And yet what we have mentioned so far is merely a brief summary of the numerous things that termites do.

Another characteristic of termites is their defense of the nest, which may be up to seven meters high. Termites are alarmed whenever there is a hole in the walls of their nest. Hitting their heads against the walls, termites on watch give warning to all members of the colony. Following this warning, larvae are moved to securer places. The entrances of the chamber where the king and the queen live are blocked by quickly built walls. The damaged section is surrounded by soldier termites, which are followed by workers who carry the material to restore the wall. In a few hours, the destroyed area is covered with a heap. Then the inner compartments are constructed. Termites act following a prescribed plan, and each member of the colony carries out its task without causing any disorder.

That they can do all these things in quite a short time is evidence of perfect communication between termites. Yet there is something even more amazing about the termites that



establish such order, build colonies like skyscrapers and take security precautions to protect their colonies: they are BLIND.

They see nothing while carrying out all these tasks. How can these creatures be so skilful and make such plans?

The answer that evolutionists provide to such questions is that they happen "by chance". However, this answer is not correct. Because even a single part of the order in a termite colony, say the ventilation channels, is sufficient to prove that such a system cannot come into existence by chance. No doubt blind termites cannot ensure this perfect order and cannot have all the work performed so faultlessly. Obviously they are taught what to do.

Allah has mentioned some animals in the Qur'an and urged us to reflect on these examples. For instance, the honeybee is given as an example in Surat an-Nahl. We are informed in the



verse that bees that produce honey for us are taught

what to do by our Lord. The verses are:

Your Lord revealed to the bees: "Build dwellings in the mountains and the trees, and also in the structures which men erect. Then eat from every kind of fruit and travel the paths of your Lord, which have been made easy for you to follow." From inside them comes a drink of varying colors, containing healing for mankind. There is certainly a Sign in that for people who reflect. (Surat an-Nahl: 68-69)

Just like the bees referred to in the above verses, termites live in the way Allah teaches them and reveals to them. It is our Lord Who creates perfect communication between these sightless creatures, teaches them what to do and makes each one of the millions of termites in a colony perform its task.



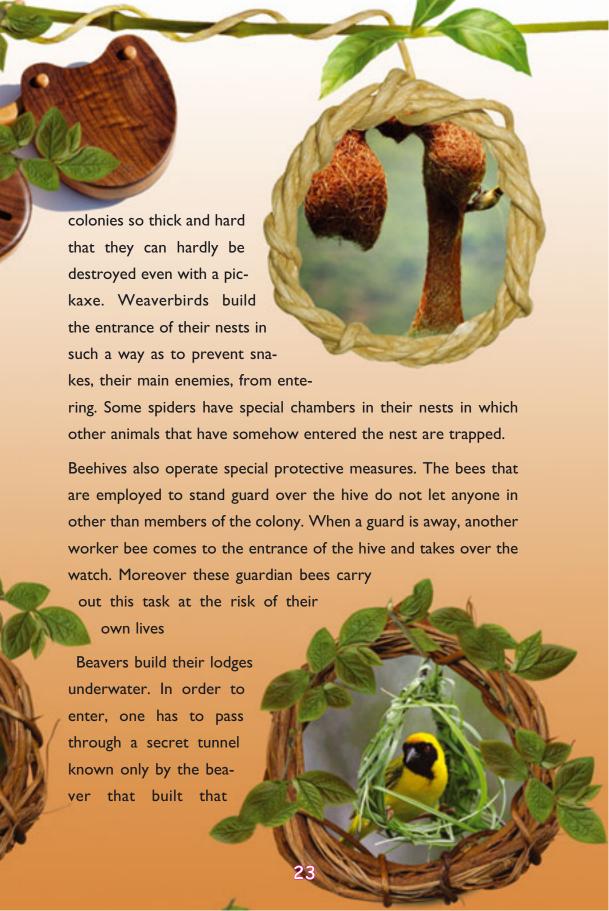


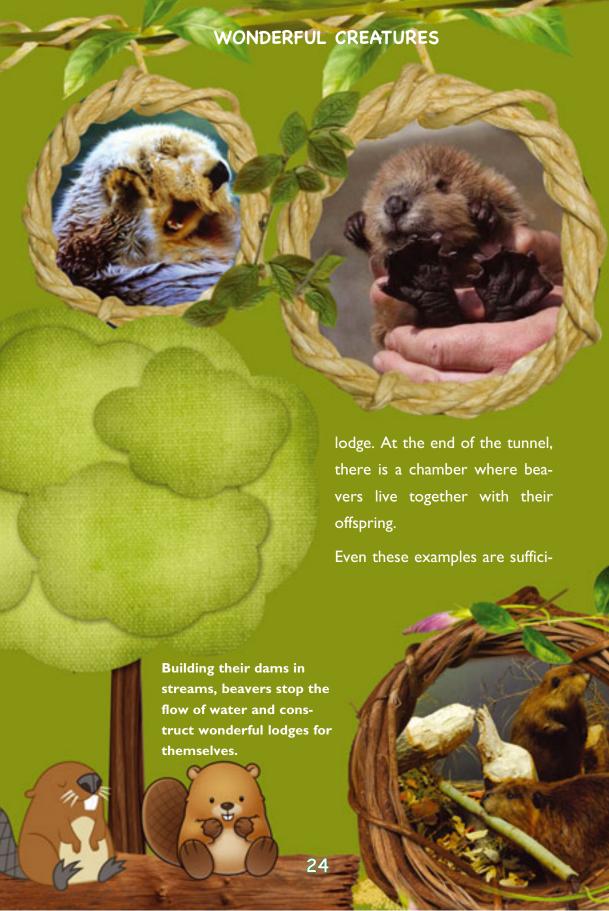


SECURITY MEASURES OF ANIMALS

One of the miracles in nature is that living creatures take precautions to protect themselves. Many creatures have the capability to estimate potential hazards and to invent various security methods. For instance, the termites that we mentioned build the walls of their









species may be another species. However, all crea-



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borate precautions against them. It is quite surprising that a termite or a bird, despite the fact that it lacks advanced intellectual functions, can know the features of another creature.

To grasp this matter better, think about yourself. Can you tell at first sight the characteristics of an animal that you do not know and have not seen before? Can you know what it feeds on, how it hunts and what it fears? Of course you cannot. You need a book to read and to get information about that creature or someone to tell you about its attributes. But how can animals have information about other creatures? Might they have found out who their enemies are and then conducted a study of their behavior and hunting methods, upon the basis of which they have developed suitable precautions? Certainly not. No animal has the intellectual capabilities and talent to do research. Besides, it would also be unreasonable and nonsensical to think that animals gathered information about their enemies by chance, because failing in the first attempt would mean death.

Undoubtedly it is Allah Who determines the security measures that animals use and makes them act as necessary. The fact that not only the animals we see around us, but all living creatures in the world behave in the same intelligent way points to the infinite wisdom and power of our Lord.



THE COMPASS IN THE ANT'S EYE

We need guides to show us the way when we travel to another country or another city. In particular, when we do not know the place we are going to, we definitely must have a compass and a map. A map shows us where we are and the compass shows us which way to go. We find the way by using these tools and consulting other people so we do not get lost. Have you ever wondered how other creatures find their way? Have you ever thought how an ant seeking food in the desert returns to its nest?

Black desert ants inhabiting the Mediterranean coasts of Tunisia are among those creatures who build their nests in the desert. These ants are very good at finding their way in the vast desert and getting back to their nests without the help of a compass or a map. As the sun rises, temperatures in the desert reach up to 70oC



The ant leaves its nest to find food in the heat of the day. Frequently halting and turning around itself, it follows a devious route within an area that may be 200meters (655 feet away from the nest. You may see this route on the map. But do not think that the ant will get lost because of these zigzags. Once it finds a source of food, the ant follows a straight course and returns to the nest. With respect to their sizes, this journey by the ant may be compared to a man's returning to his starting point taking a straight course after wandering 35-40 kilometers (22-25 miles) away from that point in the desert. How is it that an ant successfully performs a task that is virtually impossible for a human?

It cannot be that the ant finds its direction by looking at objects. Signs and road-marks such as trees, rocks, rivers or lakes which help one find the way are very rare in the desert. There is only sand all around. Even if there were such signs, it would not make any difference since it is not possible for an ant to keep these signs in mind, to memorize where they are and to use them while finding

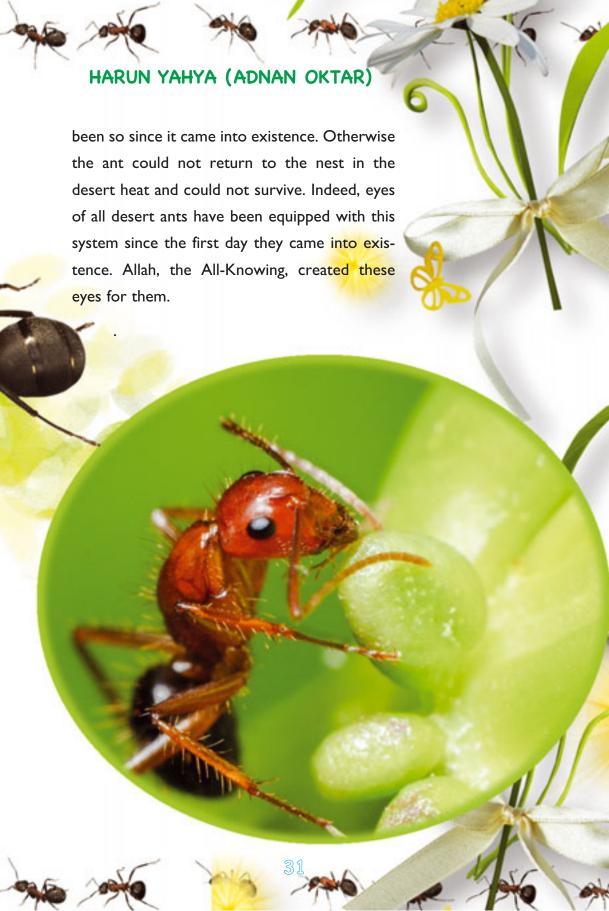


its way. Thinking about it this way, one can better understand the significance of the task that the ant performs. The ant can perform this difficult task by means of the special body structure it has been given.

There is a special navigational system in the ant's eyes. This system that Allah placed in the ant's eyes is more advanced than mechanical devices that determine direction. Being able to perceive some rays that we cannot, the ant can establish directions and know where north and south are. By means of this ability, it is not difficult at all for the ant to work out where its nest is and to return to it.

Human beings have only lately become aware of the characteristics of light. However the ant has known and used a characteristic of light, which was unknown to human beings, since it was born. Certainly such a perfect structure as the eye of this ant cannot be attributed to random coincidences. The eyes of the ant must have





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THE MARVELLOUS CO-OPERATION OF THE ANT AND THE BIRD

There are microbes everywhere that threaten our health and cause diseases. These microbes are a danger to other living creatures as well as human beings.

Therefore these creatures, too, need to protect themselves just as we do. When living creatures are observed, we see that they use

various methods to protect themselves against microbes. For instance, ants produce a kind of acidic substance that incapacitates microbes. They apply this acidic substance to their bodies and to the walls of their nest. In other words, they know that not only they themselves but also the nest they live in should be purified of microbes.

How is it that a little ant can know how to act so intelligently? There is no doubt that the ant's intellectual capacity is not up to that. An ant can know neither what a microbe is nor that it should protect itself from it. The ant should have first analyzed the microbe and then found the substance to render it harmless. But how

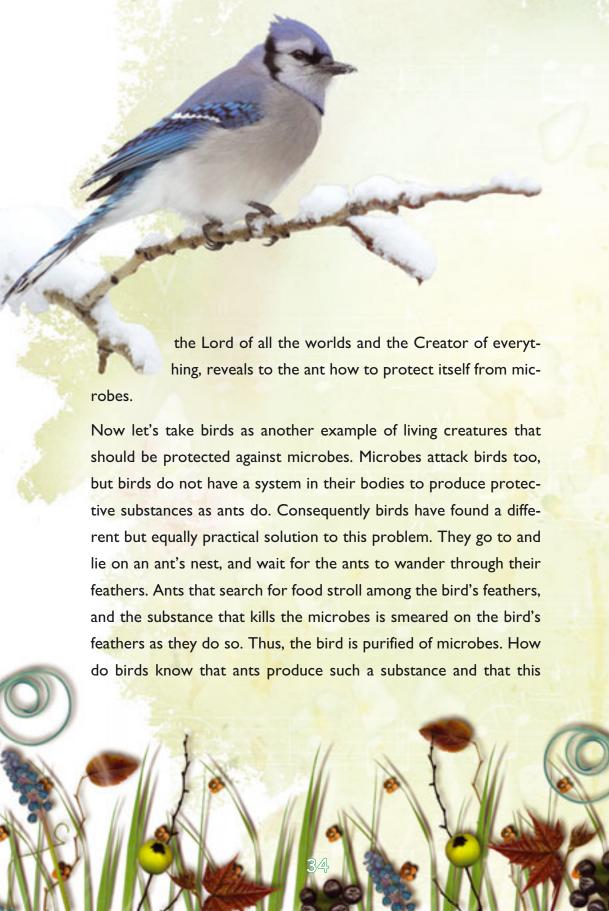


could it have determined this substance?

Let's think about it together.

People are inoculated against specific microbes, but these vaccines are prepared in laboratories as a result of much research and experiment. Moreover, experts perform this research, otherwise the vaccine would not be of any use and could even be harmful. Ants, on the other hand, do not have such knowledge and have not been trained either. They cannot possibly go to a laboratory and do research. It is unreasonable even to think such a thing. Obviously

ants are born into the world knowing all these things that they do. This knowledge is taught to the ant by a superior Being: Allah,





substance will remove microbes from their bodies?

People only discovered that ants have such a protective system after much research.

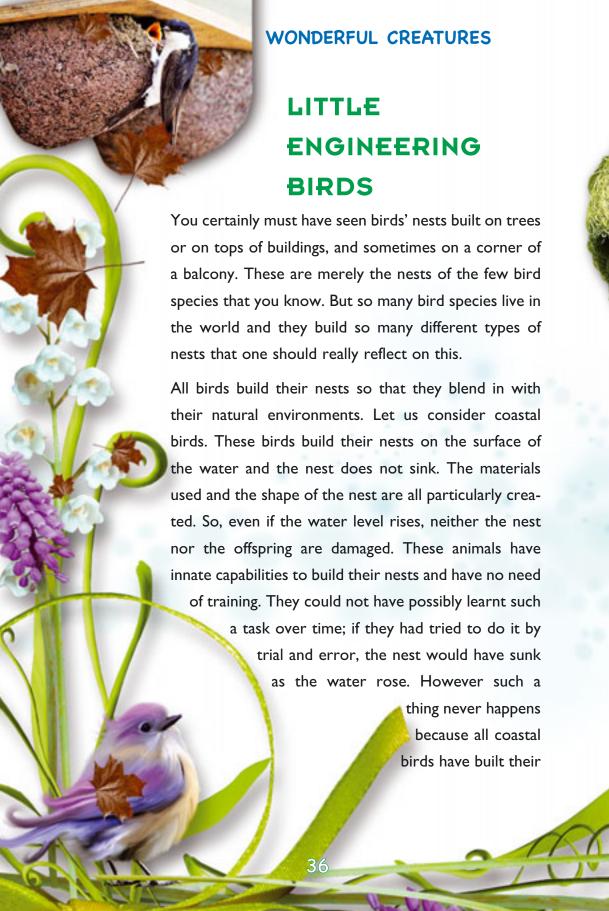
Many people without expert knowledge of animals are still not aware of it. Probably you,

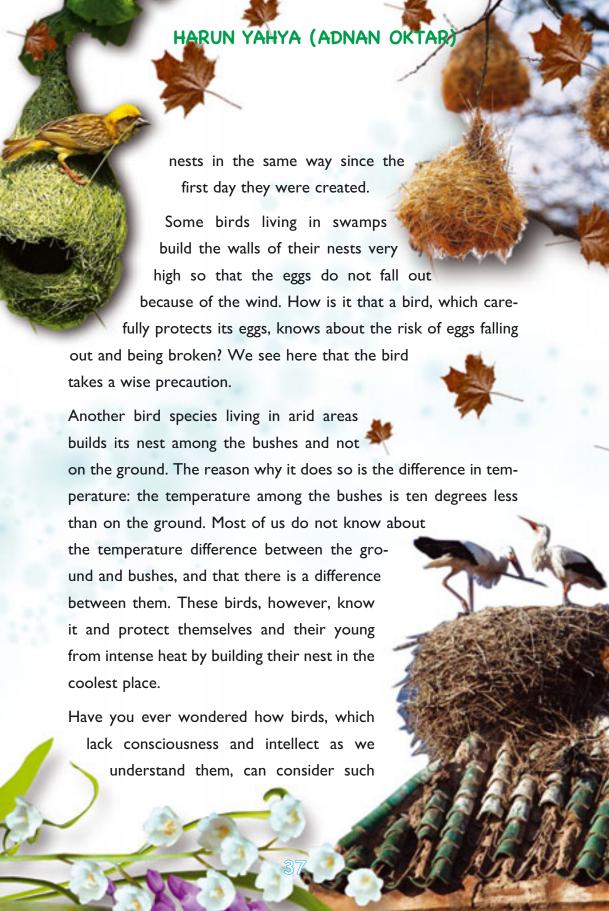
too, have just learnt about it here. Birds, however, have known this feature of ants from the moment they were born. Moreover, although there is nobody to teach them how to do it, they can use ants to be cleansed of microbes.

The fact that birds can know about a substance produced in an ant's body and can know how to make use of it leads us to a single fact: Allah teaches this information to both creatures. Allah has revealed that every being is under His command:

... No, everything in the heavens and earth belongs to Him. Everything is obedient to Him. (Surat al-Baqara: 116)







delicate details?

These behaviors of birds could be compared to those of engineers who have gone through years of education and training in their fields. While building a house, engineers consider details such as the strength of the building, materials to be used and location; only then can construction begin. As you have seen in the above examples, birds also build their nests according to a plan. But they do not need any tools or education. They act by the inspiration of Allah and easily carry out their tasks. These birds and what they perform are evidence of Allah's perfect creation. It is surely the All-Knowing Allah Who inspires them to do everything they do.



THE HEATING SYSTEM OF THE WINTER MOTH

When winter comes, many insect species inhabiting cold regions of the world die from cold or lack of food. That is because insects are delicate creatures, but there are some exceptions to this rule. For example, owl moths look like butterflies and at first sight seem very delicate. In reality, however, they are strong enough to survive tough winter conditions. Therefore these moths are also called "winter moths".

Like butterflies, a winter moth has two wings and a trunk to which these wings are joined. In order for this moth to fly, the temperature of its thorax to which its wings are joined should be 30oC (86oF). But the temperature where they live is usually 0oC (32oF) and even drops below zero degrees from time to time. How can winter moths survive such cold? What prevents them from freezing when they are motionless, and what enables them to fly in cold weather?

This moth species is created together with a special heating system

that enables it to live under winter conditions. This system consists of several complementary features.

Before flight winter moths continuously tense the main muscles that are connected to the wings and make their wings vibrate. The rapid vibrating of the wings leads to an increase in the temperature of the insect's thorax. As a result of this increase, the temperature of the thorax may rise from 0oC (32oF) to 30oC (860F) or even more. However, this is only one of the features that the moth needs to survive. In order to fly it is not sufficient for the winter moth merely to increase its body temperature. That is because the difference between the temperatures of the insect's body and of the atmosphere will result in loss of heat. In the same way as a glass of hot tea cools after a while, the moth's body will also cool. Therefore it will not help even if the moth keeps its wings vibrating. In order for the winter moth to fly and thus survive, another method is required to maintain the heat it has produced. This need is also met by a special structure that Allah created in the moth's body. Moths are covered with dense scales that reduce heat loss. Scientists have determined after research that a moth without scales cools twice as fast as those with scales.

These are some of the mechanisms in a winter moth that protect it from cold. The features mentioned above must have existed since this moth species came into being. Otherwise, the moth would have died of cold and this species would be extinct. One

does not need to reflect at great length to understand that it is not a coincidence that only those species inhabiting cold regions possess these features that make them different from all other moths. Taking all kinds of measures to enable these creatures to survive in cold, Allah introduces Himself to us. In the Qur'an, Allah reveals that He knows where all creatures live:

There is no creature on the earth which is not dependent upon Allah for its provision. He knows where it lives and where it dies. They are all in a Clear Book. (Surah Hud: 6)

Such features in living creatures enable us to grasp Allah's power and artistry, and increase our faith in and love for our Lord. Communicating the amazing information you read to others, you may also be the means to increase other people's faith in Allah.





Salmon are born into the world as they hatch from eggs the females of the species lay in the river. They grow and hunt in this place for several weeks after which they start to advance down the river. During this journey towards the sea, they encounter

dams and polluted water, and try to avoid dangers such as bigger hunting fish. Having overcome all these and reached the sea, they spend several

years there. Once they mature enough to spawn, they swim back to the fresh water.

The point at which salmon
aim to arrive is the place
they were born. But make no
mistake: it's not just a short distance. The distance that the fish needs to
cover to get to its destination may be
up to 1,500 km (930 miles), which means
a demanding journey of several months. There are many obstacles that the fish has to overcome during this journey.

The first, and maybe the most important problem that needs to be solved is to find where the river down which the fish swam during its first journey empties into the sea.

Based on this, the fish will determine the return route to follow. Amazingly, none of the salmon makes a mistake and they all find the river's opening to the sea right first time.

Entering the stream, the salmon starts to steadfastly swim against the current. This time its task is harder because, whereas it could easily pass down waterfalls with the assistance of the current the first time, it has to climb up over them this time. What the salmon in the pictures in this chapter intends by leaping upriver is to reach the place where it was spawned. During this journey the

salmon may need to swim through shallow waters that leave its upper fin above water. These shallow waters are full of birds, bears and many other wild predators.

The difficulties that the salmon has to overcome are not limited to these. Recall that it hatched from the egg in a branch of a river, in an internal part of the land. In order to reach that point, it has to go the correct way when the river forks into branches. Salmon do not make any mistake in these choices and they always follow the correct stream.

Now suppose that you were born and had grown up in a house in a city. Then one day you left your house, travelled for days and came to a place 1,500 km (930 miles) away from home. Years passed and you desired to return to your place of birth. Do you think that you could possibly remember streets that you passed only once? While no human being could, salmon can, and they always find their way completely accurately.

There have been various studies intended to establish how sal-

mon make this exceptional journey. And it has been concluded that salmon find their way by use of "smell".



By means of its ingeniously structured nose, a salmon can follow a scent in the water to its source, just as a hound does. In fact, every current has its own distinctive smell. The young salmon records all the smells during its journey and returns home by recalling these smells.

How does this extraordinary thing happen? How can every salmon find its way correctly? Why do all salmon try to return to their place of birth, risking their lives, leaping waterfalls and confronting wild animals? What is more, they do not do all these things for themselves but simply in order to deposit their eggs in these waters.

There is only one answer to these questions: Allah, the All-Knowing, created the salmon and the systems that enable them to find their way. Like all creatures, salmon act by the inspiration they receive from Allah and they manifest the Lord's excellent creation.





refutes the theory of evolution is the fact that salmon cover thousands of kilometers and risk their own lives to spawn.

Evolutionists claim that all creatures are always in a struggle with each other and that only the strong survive at the end of it. However, there is also co-operation among living creatures, contrary to evolutionists' assertions. Animals risk their own lives for their offspring. Besides, as you will see in the examples given in the following pages, there are different species that associate with and benefit each other. The salmon is merely one of the creatures that display self-sacrificing behavior for their offspring. Salmon that migrate and manage to reach the place to spawn, which are very small in number, will die soon after they produce





HOW DO FISH LIVE IN WATER?

You must have seen how fast and brisk fish are in water. In order to swim, a fish does not need to make any movement other than to flap its tail from side to side. This ease of movement that fish have in water is a result of their flexible backbones as well as some systems in their bodies.

A fish expends a large amount of energy while swimming. This is not because it swims fast for long times. Fish need considerable amounts of energy in order to reach high speeds from being sta-

tionary. It is vital for a fish to gain speed instantaneously because it needs to do so in order to escape from predators.

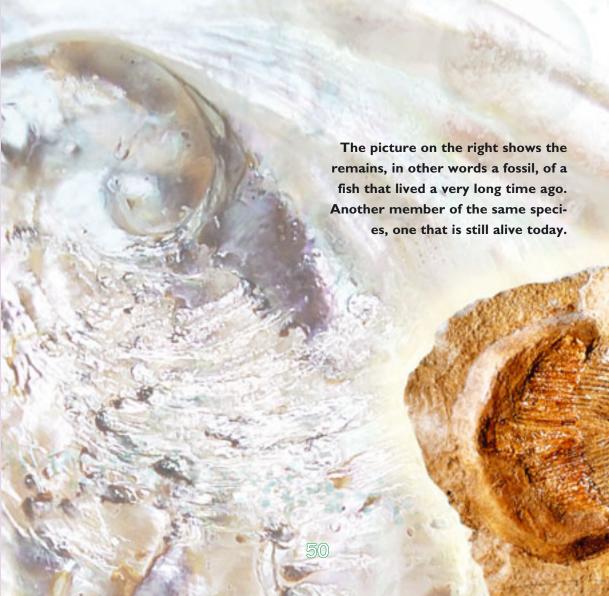
Moreover, fish move against the current most of the time. Consider how hard it is for you to move in water and how easy it is to move while you are walking on the street. Compare living underwater and living on the face of earth.

It is the special structure of the backbone and muscles of the fish that provide it such power. The backbone keeps the body straight and is connected to the fins and muscles. Otherwise, it would not be possible for the fish to move in the water. However, the particular shape of its backbone is not sufficient to enable it to swim. That is because fish not only move forward and backward, but also up and down in order to survive. This movement is made possible by another system in their bodies; air sacs. By emptying these sacs of air, fish can sink to the bottom of the sea, and by filling the sacs with air they can rise to the surface again.

Have you ever wondered how it is that fish are not damaged at all although they are always in the water? Our skin becomes affected



if we stay in water for a while; if we stay for a longer time then it suffers injury. But this never happens to a fish. This is a result of a stiff bright layer in its outer skin. This layer prevents water from entering its body. If fish did not have this layer, their bodies would be damaged, and since water would enter the body the balance inside would be disturbed and they would eventually die. However, these things do not happen and all fish continue to live their underwater lives.



All fish species in the world possess these features. Species that lived long ago possessed them, too. Fish have had the same perfect structure for millions of years and have not gone through any change. It is possible to see this in the remnants of fish that lived millions of years ago. These remnants, namely fossils, clearly reveal that fish were the same as they are today and have not changed at all. This is evidence that fish came into existence at one point in time. In other words, they were created. It is Allah Who gave fish all the features they have and Who created everything in the universe. He knows the needs of all creatures.



HOW DO MACAWS KNOW CHEMISTRY?

Some plants have poisonous seeds. This is an effective method of protection against enemies that try to eat them. Yet one parrot species living in America can feed on these poisonous seeds. This is really surprising because while other creatures cannot approach these seeds, these birds that continually eat them are not affected by them at all. You are curious about how this happens, aren't you?

How this parrot species called the macaw is not poisoned has attracted the attention of scientists too. Scientists observed macaws and witnessed a quite extraordinary pattern of behavior.

Having eaten these nutritious but poisonous seeds, macaws fly towards a rocky place. There they gnaw on and swallow some clay-containing rocks. This is not random behavior. Indeed, rocks that contain clay absorb the poison of the seeds. This is how the macaw can digest the seeds without being harmed by them.

How has this bird acquired the medical knowledge to diagnose the poisonous effect of the seeds? How does it

know how to get rid of this poisonous effect? Could it possibly have had an education in pharmacy to know that a substance that neutralizes the effects of the poison is available in rocks that contain clay? Of course, not.

A human being could not tell whether a seed is poisonous

or not by its appearance.

He could not work out how to neutralize the effects of the poison. In order to be able to do that, he would have needed trai-

ning or to have consulted people

with such knowledge. This being the case, it cannot be claimed that a bird with no intellectual faculties might have discovered such a thing after long chemical analyses and study. It is not possible for macaws to acquire this knowledge, which can be learnt by human beings

only after years of special training, by chance. All-Knowing Allah, Who creates everything per-

fectly, teaches macaws this knowledge.



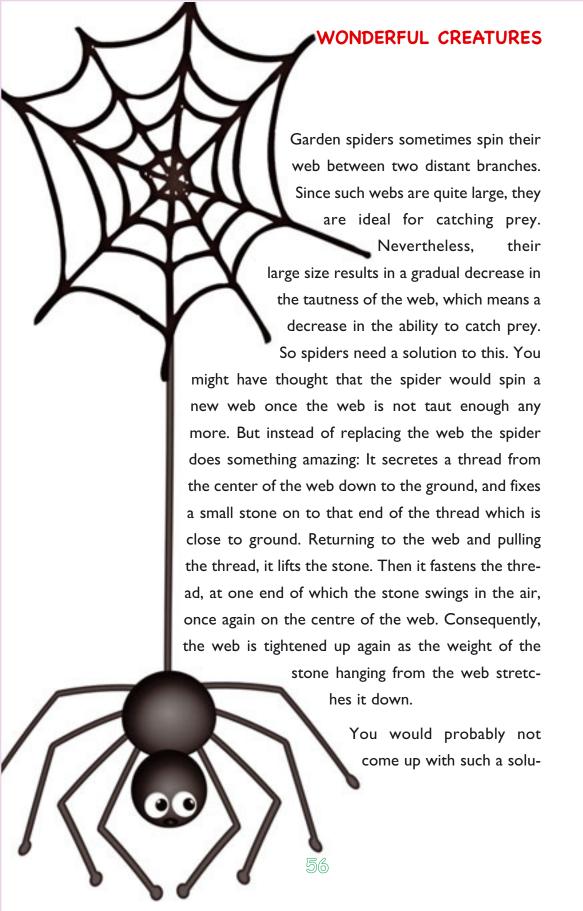
ENGINEERING IN THE COBWEB

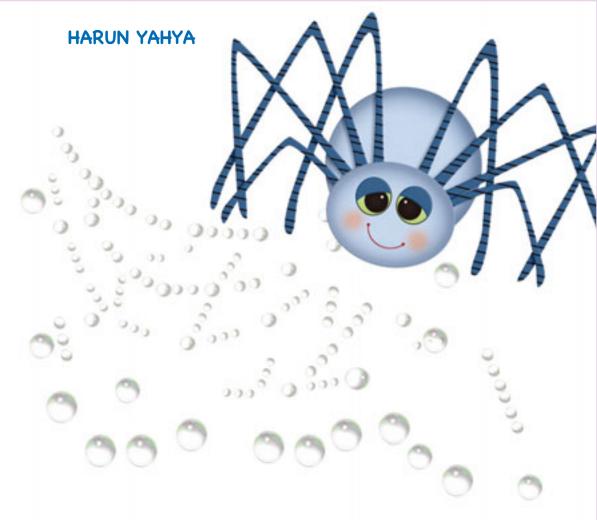
Have you ever noticed the shapes of spider webs? Did you know that spiders produce their thread themselves and that this thread has some amazing characteristics? Or have you heard that the techniques used by garden spiders to spin a web are the same as those used by civil engineers today?

A spider needs two separate places in order to spin its web. Webs are generally spun in a corner where two walls join or between two branches. However, some spiders are so skilful that they spin their webs using a single surface. How a spider spins its web is spectacular. Now try to visualize what we will tell you here.

A spider first finds a flexible branch that is long enough to spin its web. It firmly fastens a thread to the end of the branch. Walking down the branch, it continues to secrete thread. Once it covers a certain distance, it stops and ceases to secrete. It pulls the thread it has secreted until the branch is bent like a bow. The spider sticks the other end of the thread, which is now as straight as a string, firmly to that point. Then it starts to spin its web inside this bow.

Now consider what you would do if you were to stretch a string two and a half meters long between two walls that are two meters apart from each other. While you are trying to find out how, let us explain how a species of garden spider has solved this problem.





tion, and neither would many people with no knowledge of construction techniques. Spiders, however, know and apply this technique. How does a spider know such an admirable technique and apply it so well? Moreover, every spider for millions of years has spun its web applying the same technique. There has to be a "Power" Who inspires the spider to use this technique, because the power to do it does not belong to the spider itself. This power belongs to the Almighty Allah, Possessor of everything, Who guides and inspires all living creatures with what they need to do.

AN INTERESTING CREATURE: THE NAUTILUS

You must have seen submarines on TV or in journals. These vessels, which are capable of operating far below the surface of the sea without being noticed, are used in ensuring national security and in some scientific research. How submarines operate is: As the special diving tanks in a submarine are filled with water, the vessel becomes heavier than water and sinks deep down in the ocean. If water in the tank is emptied and replaced by pressurized air, the submarine rises to the surface of the water again.



Now we will examine the nautilus, a very interesting creature that employs exactly the same method. The nautilus has a spiral, pearly-lined shell and dives in the way that submarines do. It has an organ shaped like a snail shell that is 19 cm (7.5 inches) in diameter, as shown in the picture. This organ contains 28 interconnected "diving chambers". These diving chambers operate in the same way as the tanks in a submarine do; in other words, the nautilus needs pressurized air. In submarines, this need is met by a special system installed by engineers in relevant places in the submarine. But how does the nautilus find the pressurized air necessary to expel the water?

The answer to this question introduces us to another amazing feature that Allah created. A special gas is produced in the nautilus' body. This gas is conveyed to the chambers through its bloodstream and eventually expels the water from the cells. So a nautilus can sink or float to protect itself against its enemies while hunting. In fact the diving capacity of the nautilus is much higher than that of



The special system of this interesting marine animal is created for us to reflect on. Now consider for a moment. Could a nautilus have attained this system by chance? Could it itself have acquired the bodily structure that enables gas production? Furthermore, this is not the only feature of the nautilus. The pressure underwater is



Obviously, all features that a nautilus has are created. This being cannot possibly on its own build the bodily structure to resist a pressure of tons underwater. Allah, Who originates everything perfectly, created this excellent structure. In a verse of the Qur'an, Allah invites people to be heedful:

nautilus is not affected by this pressure, which can be extreme.

Is He Who creates like him who does not create? So will you not pay heed? (Surat an-Nahl: 17)

BUTTERFLIES THAT HAVE A KNOWLEDGE OF PHYSICS

The appearance of butterflies is admirable. These creatures, which with their colorful wings and elegant flight are like living ornaments, are some of the sources of beauty that Allah creates for us. However, a marvelous appearance is certainly not the only feature of butterflies. These short-lived creatures sometimes do calculations such as a specialist would do. For example, like the moths which we discussed earlier, the body heat of a butterfly has to be at a certain temperature in order for it to fly. Let's see what

butterflies do to solve this problem.

The colias butterfly cannot fly when its body temperature is below 28oC (83oF). In such cases the butterfly opens its wings to expose its upper side to the sun and to soak up the sun's rays at the correct angle. If its body temperature rises as high as 40oC (104oF), it responses to the sun's rays horizontally. With this behavior

vior the butterfly absorbs as little heat through the wings as possible and its body temperature decreases.

Besides that, this butterfly species has small dark spots on its wings. These spots, the function of which is to maintain a higher body temperature, are not located just anywhere. They are close to the points that most need to be warm. As a result of this particular creation, heat transmission from these spots, which warm up quickly, to other parts of the body is facilitated since the distance that needs to be covered to transmit heat is shortened.

Another butterfly species employs a similar method to increase its body temperature. You all know what a lens is. Some are used to produce enlarged images whereas some others are used to produce smaller images of objects. For example glasses consist of a pair of lenses. Beside this function, a lens angled correctly toward the sun can concentrate the sun's rays on a certain spot. Using this method it is possible even to light a fire. The pieris, another butterfly species, angles its wings toward the sun so that all rays are concentrated on certain parts of its body that most need to be warm, in a similar way as a lens functions.

These butterflies have certainly not been trained in physics or any other field. They cannot know about the features of a lens. They do not know which angle would receive the greatest amount of heat. Allah, Who watches over and protects all things, inspires in butterflies what they should do to regulate their body temperature. As Allah reminds us in the Qur'an:

... Allah is watchful over all things. (Surat al-Ahzab: 52)



THE MALE CATFISH ON DUTY

It is not generally known that fish build nests and provide continuous protection for their offspring. These nests are generally holes dug among pebbles or in the sand. Eggs develop in these open nests for some time, during which the mother and father fish take turns to keep watch over the nest for enemies.

Catfish are among these creatures that protect their young. Female catfish spawn eggs at the bottom of plants and reeds in shallow

water. The eggs cling to the roots of these plants. After a while, the female leaves her eggs and then it is the male's turn to take on the duty. The male's duty is to stay with the eggs and to keep watch for danger. This sentry duty lasts for about 40-50 days, after which the young fish become fully mature.

Besides this vigilance, the male also makes a murmuring sound using his gills and in this way keeps other hostile fish away from the eggs. He knows that this sound will threaten other fish and will force them to go away.

Allah inspires male catfish to protect their young in this way. Like all creatures, this fish acts only in the way that Allah inspires in it and thus ensures the continuance of its species.

DID YOU KNOW ABOUT LUMINESCENT CREATURES?

Have you ever seen lights moving in trees at night? The source of these lights, which may sometimes be so numerous that a tree may be suffused with them all over, is fireflies. These are the best known of luminescent living creatures. These animals, which emit light and illuminate trees in the darkness of the night, are among those that scientists have studied most. Soon

we will examine why, but first let's see how these creatures use light.

Fireflies produce green-yellow lights in

their bodies. Light is the means of communication for fireflies. As well as giving mating signals, this light is also used for defense against enemies. By means of light, their enemies understand that fireflies are not tasty and thus decide not to feed on them.

The main characteristic of these beetles is that they make the most of light and they virtually do not waste any energy. Therefore fireflies have become a subject for investigation by scientists for years. However, despite all the research that has been carried out, humans have not yet produced a light as prolific as that of fireflies.

It is amazing how a living creature produces light, yet is not adversely affected by its heat. You must have noticed that lamps produce heat as well as illumination. If you touch a source of light, for example, a light bulb, the heat burns your hand. So you might wonder how the firefly is not injured by the heat it produces. In fact, that's what is so amazing about luminescent creatures: the heat they produce does not affect them. That is because the light produced by these creatures is completely different from what we use as a medium of illumination. This light is called "cold light", and heat is not emitted during the production of this type of light. Therefore production of this

type of light is very effective and scientists have tried for years to imitate this type of light.

As well as fireflies, various underwater creatures, insects and other species also produce their own light. Each has a different way to produce its light, different fields in which to use the light and different durations and types of light. And each on its own is a wonder.

Obviously, it was not the creatures who equipped themselves with the systems to produce light and who ensure the conti-



nuance of these systems. A system that produces light in a living creature's body cannot possibly come into existence as a result of coincidences. Moreover, a structure so perfect that does not cause any damage to the body could not have possibly emerged during the production process. All luminescent creatures are evidence of Allah's artistry in excellent creation. Allah shows us the evidence of His eternal knowledge, intelligence and power in the creatures He creates. He also reminds mankind that no matter how hard man tries, he cannot bring the flawless mechanisms in nature into existence unless our Lord so wills.



LUMINESCENT UNDER-WATER CREATURES

Many underwater creatures, like the ones shown in the pictures, possess systems as fireflies do for producing light. They generally use their light to stupefy or frighten their enemies. Almost all of them have series of cells along their backs like the seams of a fabric and these cells can produce light. Now let's have a look at the general characteristics of these creatures.

One of these species is an animal that looks like a jellyfish. They generally feed on small marine animals and plants that are invisible to the naked eye. Some seize their prey by use of their sticky tentac-

les, which move in water like a fishing line. Members of another species have such large mouths that they can open them wide and swallow many creatures. They have series of thin hairs on their bodies, which they use to propel themselves forward in the water.

Luminescent creatures have some other extraordinary traits. For example, some red species shine when they are struck, and can leave glitteringly illuminated particles in the water. This is a way to confuse, and thus to escape from, their enemies.

Creatures like starfish, sea urchins and feather stars are "spiny": Many of these creatu-



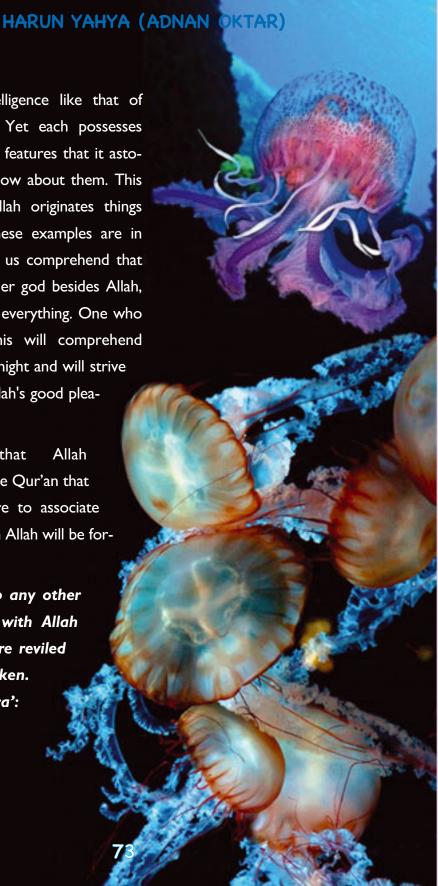


res are covered with spines, which are used as a means of defense.

They live on seashores, in coral reefs and on the seabed. These creatures also produce their own light to protect themselves against their enemies. Having luminous arms or spines, they can also produce clouds of light in the water when they are attacked.

The most interesting feature of luminescent marine creatures is probably the fact that they use their light to mislead others. A starfish species is a good example of this. This starfish species lives about 1,000 meters (3,280 feet) deep in the sea. It emits bright green-blue light from the tip of its arms. This gleaming warning notifies its enemies that it is not tasty. Another starfish species starts flashing when it is attacked and detaches and throws one of its arms towards the enemy to divert it. The attention of its enemy is distracted by the torn arm, which still emits white light. In the meantime the starfish finds the time to flee.

As we have seen in the few examples given above, the mechanisms in living creatures that enable them to produce light demonstrate to us the perfect creation of Allah. What have been mentioned here are creatures that live underwater, the dominant component of whose bodies is usually water – as in our own bodies – and that cannot pos-



sibly have intelligence like that of human beings. Yet each possesses such wonderful features that it astonishes us to know about them. This reveals that Allah originates things matchlessly. These examples are in order to make us comprehend that there is no other god besides Allah, the Creator of everything. One who understands this will comprehend Allah's infinite might and will strive only to earn Allah's good pleasure.

Remember that Allah informs us in the Our'an that those who dare to associate other gods with Allah will be forsaken:

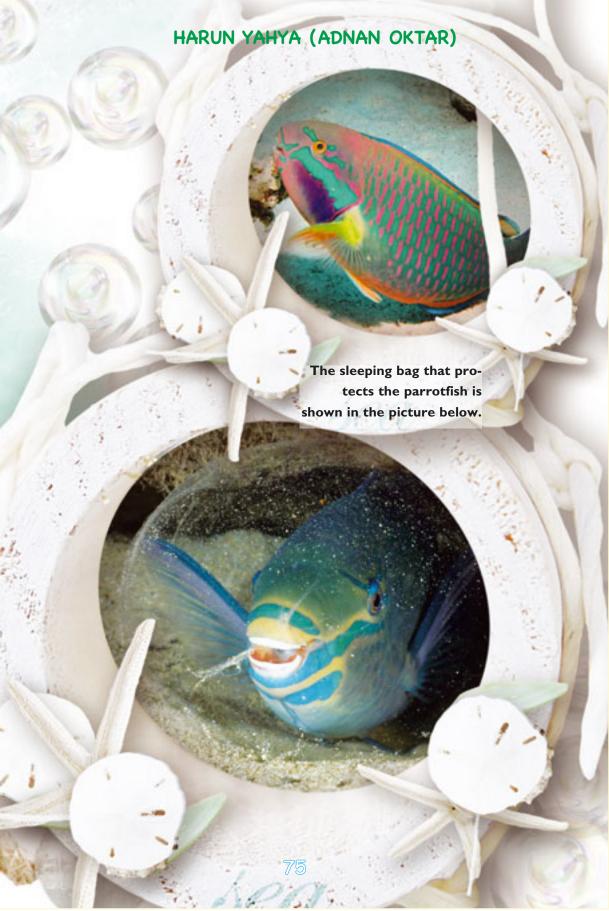
Do not set up any other god together with Allah and so sit there reviled and forsaken. al-Isra': (Surat

22)

THE SLEEPING BAG OF THE PARROTFISH

The fish shown in the picture on the other page is called the parrotfish, since it resembles a parrot, as you may have noticed. This colorful fish employs quite an unusual method to protect itself against its enemies. Especially at night, it covers its entire body with a gelatin-like substance that it produces itself. Before answering the question "why?", let's see how this substance is produced and used.

This gelatinous sheath of the parrotfish is secreted from the upper side of the gill cavity. The fish secretes the substance while it breathes. After a while this sheath covers the entire body of the fish. By doing so the fish places itself within a kind of sleeping bag and becomes protected from external danger at night. This substance also enables the fish to conceal itself by camouflage. As a vital function, the transparent sleeping bag protects the fish from moray eels, one of its bitter enemies. Moray eels have an excellent sense of smell and can find their prey with it. However, the protective sheath of the parrotfish prevents the moray from perceiving its scent. The moray does not notice the fish in the sheath even if it



bumps into it while passing by.

This being the case, one must ask the following questions: How did parrotfish obtain this protective sheath that they use at night? How do they know that their leading enemy hunts by means of its sense of smell? How did they discover a substance so essential in obstructing the moray's sense of smell so enabling them to spend the night in safety?

Obviously, one cannot expect a fish to decide to produce a chemi-



cal in its body and then to cover itself with this substance. Nor could such a thing have developed spontaneously through time. Parrotfish could not consciously plan to produce such a substance and could not make up such a system in their bodies of their own volition; neither could a parrotfish that lived 1,000 or 10,000 years ago.

It is a clever method of camouflage that the body of the fish is covered with gelatin, which is totally suitable for protecting the fish from its enemy. It is obvious that such a feature could come into existence only as a result of the marvelous creation of Almighty Allah, the Lord of all the worlds and the Creator of all things.





THE SKILLFUL CAMOUFLAGE OF THE SCORPION FISH

The appearance of a scorpion fish is very colorful. These fish are the same color as the coral among which they live. As you can see in the picture, the red-and-white striped scorpion fish can conceal itself by camouflage among the coral, which are virtually the same colors. That way it escapes the attentions of predators and reduces the risk of becoming prey. Again by virtue of this colo-

By means of their particular coloring, scorpion fish can easily conceal themselves among the rocks.

ration, it can easily draw near to its own prey.

Take a careful look at the scorpion fish – seen in the picture on the other page – and you will realize how hard it really is to notice their presence in their environments.

Like scorpion fish, many other marine creatures cannot be distinguished from their environments. Their presence is only noticed when they move. These perfectly camouflaged creatures use their coloration to enable them to hunt, to reproduce and to give various signals to other creatures. But how did this harmony come about? Who made the body of a fish the same color as the reefs in which it lives, and made it look even more like the reefs by giving it a projecting shape?

Chance can never give a creature the same color as the environment in which it lives. A fish, shrimp or crab can neither have the knowledge of color nor be able to produce systems in their own bodies to change their color. Such great systems can only be created by Almighty Allah, Who is All-Merciful, All-Powerful.

Allah created all creatures together with the attributes they possess and in harmony with the environments in which they live.

Allah has informed us in the Qur'an that He has knowledge of all creatures He created:

Does He Who created not then know? He is the All-Pervading, the All-Aware. It is He Who made the earth submissive to you, so walk its broad trails and eat what it provides. The Resurrection is to Him. (Surat al-Mulk: 14-15)

INTERESTING FEATURES OF SEA HORSES

You may have seen sea horses on television or in books. Their unusual horse-like appearance and their wavering pattern of swimming might have attracted your attention. Did you know that, con-



trary to what one might suppose, these animals are very small? Sea horses, which are 4 to 30 centimeters (1,5 to 12 inches) in size, generally live among seaweed and other plants close to the shore. The bony armor of the sea horse protects it against dangers. This armor is so tough that it is virtually impossible to crush a dried sea horse using your hands.

The sea horse's head is at a right angle to its body, something which is not seen in any



other fish. Consequently, sea horses swim with their bodies upright and can move their heads up and down. However, they cannot turn their heads to the side. Now let's think about the problems that other living creatures would suffer if they could not turn their heads to the right or to the left; they would be susceptible to all sorts of physical dangers. However, as a result of their special body features, sea horses do not experience such problems. Each eye of a sea horse can move individually and freely in all directions. That's how sea horses see around themselves easily although they cannot turn their heads to the side.

The movements of these fish in the water are also worth consideration because they swim by means of a quite unique system. Each sea horse has a number of swim bladders. Making necessary modifications in the amount of the gas filling these bladders, a sea horse can swim upwards and downwards. If these bladders are damaged and even a minor amount of gas is lost, the sea horse sinks deep down in the sea, which means death for it. One point should be noted here: the amount of gas filling the swim bladders has been arranged exactly. Therefore any change could result in the death of the animal.

What this exact arrangement reveals to us is of great importance. If sea horses can survive only with a certain amount of gas in the bladders, then they must have possessed the current features they

have today when they too first emerged. In other words, sea horses have not attained their features in time as claimed by evolutionists. They were created together with all their features and characteristics out of nothing and all at once. Like all creatures in the universe, Allah created sea horses complete and perfect.

Sea horses are merely one of the numerous marine species. The creation of such a being is another proof of Allah's infinite power and endless knowledge.





DRAGONFLIES: FLIGHT MACHINES

It is possible to see dragonflies many places where water exists. If you know this insect, you might have already seen that it moves very fast and that it can make very sudden and sharp maneuvers. But for those who are not familiar with it, let's have a look at this insect.

The appearance of a dragonfly resembles a helicopter. This insect has such a perfect talent for flight that regardless of the speed and direction it is flying in, it can suddenly stop and fly in just the opposite direction, to such an extent that it may remain suspended in the air and wait in the proper position to attack its prey. This is by means of its wings, which it can flap very fast. When it is in this position, it can make a swift turn and head towards its prey. In fact, these are merely a few facets of its maneuverability that have been sources of inspiration for mankind in the construction of helicopters that are the products of today's advanced technology.





its being covered with metal. A dragonfly, whose color may vary from ice blue to claret red, has two pairs of wings on its back, one at the front and the other at the rear. While flying, the two front wings move up as the two rear wings move down.

Sikorsky helicopters were produced in today's technology by taking this particular form of the wings of the dragonfly as model. First the picture of a dragonfly was loaded onto a computer. Considering the dragonfly's maneuvers in the air, 2,000 special drawings were made. At the end of this study, Sikorsky came up with its new and very strong model with its advanced mobility, meant for transporting soldiers and supplies.

Have you ever noticed a dragonfly's eyes? Dragonflies have perfect vision. The eyes of the dragonfly are considered the best insect eyes by scientists. A dragonfly has a pair of eyes, each one of which contains about 30,000 lenses. These eyes, which look like two hemispheres and cover half of the insect's head, provide a broad field of view. Consequently, even its back is virtually within the dragonfly's range of vision.

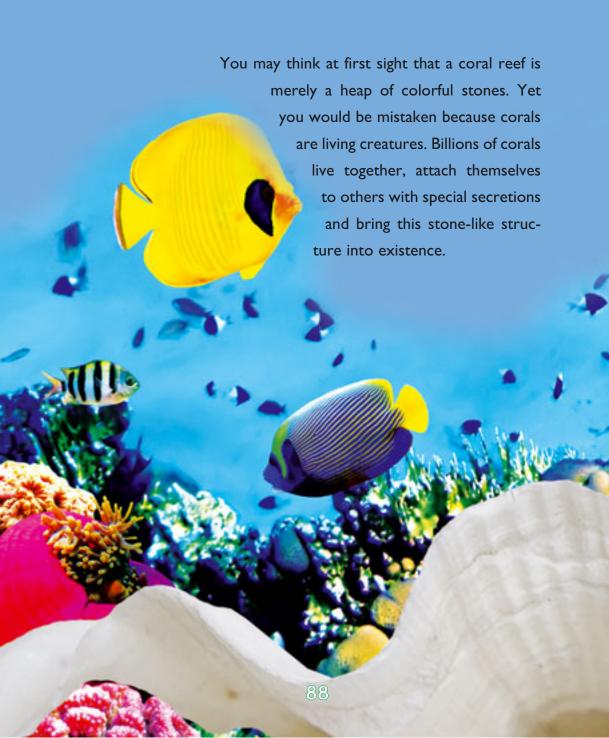
These are merely a few of the features of dragonflies,

described very briefly. Suppose that any one of these features of the dragonfly, say the particular type of wings, did not exist. Could this insect then make sudden maneuvers and catch its prey? Or, if it did not have eyes that enabled it to see in every direction, could it manage to escape from its enemies?

The absence of any of the systems that a dragonfly possesses will give rise to a dysfunction of other systems. Yet, the dragonfly was created completely with all of its systems. Allah created the dragonfly perfect, like all other creatures, and it is thanks to Allah's



SECRET SHELTERS IN THE SEAS: CORALS



Remnants of dead corals become calcified and these residues turn into coral nests in time where many creatures live together. Every fish species living in a coral reef has particular characteristics. For example, fish that hunt in the daytime, such as angelfish, hide in quiet and secluded sections and cracks of the reef as the sun sets.

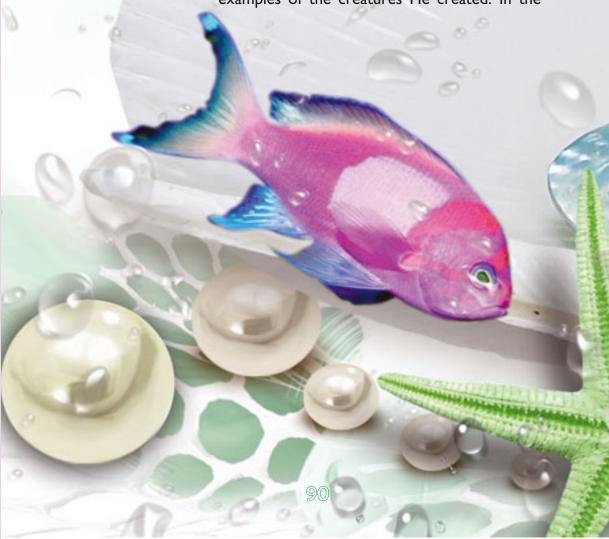
Patterns of behavior of fish that live in the coral reefs are diverse. For example, some fish, like the parrotfish we mentioned earlier, sleep deeply at nights in their sleeping bags. Some fish species, such as sticklebacks, on the other hand, are half-awake while they rest. Red mullet and some others use very

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bright colors in daytime and turn their skin color pale at nights.

Sponges, corals and some fish that lay eggs also live in dead coral residues. Besides these, small crabs and shrimps climb onto coral reefs to feed on microscopic plants and animals. Fish such as sharks and moray eels that live in coral reefs use their strong sense of smell to find food in the dark.

Many different creatures that Allah created in the seas and their unique and miraculous features manifest our Lord's matchless artistry and infinite knowledge. In Surat an-Nahl, Allah gives some examples of the creatures He created. In the



same surah He states that people should be thankful for them:

And also the things of varying colors He has created for you in the earth. There is certainly a Sign in that for people who pay heed. It is He Who made the sea subservient to you so that you can eat fresh flesh from it and bring out from it ornaments to wear. And you see the ships cleaving through it so that you can seek His bounty, and so that hopefully you will show thanks. (Surat an-Nahl: 13-14)



LIFE IN THE DESERT

Extreme heat that reaches up to 50-60oC (122-140oF) in the day-time, freezing cold at night, drought that can last for weeks or even months, and very little food. You might think it impossible to live in such a place. These tough places are deserts and, contrary to what you might think, many creatures live in the desert. Below we mention some of these creatures.

One desert animal is the cream colored fox, which is the smallest of all fox species (on the next page). The ears of this fox species are bigger than those of others. These wide ears are very useful for the fox, which lives in the sandy deserts of Africa and Arabia. For example, the fox can easily determine its prey's location by means of its sensitive ears. Preventing excessive heating, these ears also help the animal remain cool.



Another creature that lives in the deserts is the shovel-snouted lizard (below). To cool its tail and feet, this creature moves on hot sands as if it were dancing. Supported by its tail, it raises one of its front and one of its back legs diagonally opposite. A few seconds later, it is the turn of the other two legs. With its peculiarly shaped nose and body, the lizard moves in the mounds of sand as if swimming. Its big feet enable it to run fast on the sand without being hurt by the heat.

The desert frogs that live in Australia are like water tanks. A desert frog fills the pouches in its body with water when it rains. Then it buries itself in the sand and begins to wait for the next rain. With



the water they store in their pouches, desert frogs can survive in the desert.

Have you noticed the common characteristics of desert creatures, of which we have given a few examples here? Their body structures are remarkably ideal for living in the desert and they have characteristics quite distinct from other creatures. Also, these animals apparently know very well how they should act for protection from the desert heat and to cope with thirst. How could a frog or a lizard have such knowledge? How could they possess the exact body structure that they require?

Certainly animals could not know these things by themselves. They could neither create water tanks in their bodies nor generate big ears to protect themselves from the heat. In order to survive in



the desert, these creatures must have had these characteristics since they came into being. Otherwise, they would soon become extinct from excessive heat, thirst or hunger. However, this does not happen. Moreover, all desert creatures on earth have the capacity to endure desert conditions. Each species has unique characteristics that enable it to survive in the desert.

All these lead us to one truth. The One Who created desert creatures together with the features they have today is Allah. Allah has power to do whatever He likes at any time He likes. In a verse of the Qur'an, Allah informs us that everything is easy for Him:

The Originator of the heavens and earth. When He decides on something, He just says to it, "Be!" and it is.

(Surat al-Baqara: 117)





THE SPECIAL COOLING SYSTEM OF GAZELLES

Air conditioners protect us from cold in winter and from heat in summer. Yet humans are not the first beings to discover cooling systems. Many creatures already have in their bodies cooling systems that function like air conditioners.

We may give the fast running gazelles of Africa as an example. Like many others, this animal, too, has to run away from its enemies to survive because it does not have any other defense mechanism. Yet this fast running increases its body heat excessively, which is very dangerous for the gazelle because as the body heat increases, so does the gazelle's brain heat. However, in order for the gazelle to survive, its brain heat needs to be cooler than that of the body. So you may wonder how it is that gazelles don't die.

The answer to this question leads us to the fact of creation.

The brain of a gazelle is cooled by a special cooling system located on the right side of its head. Gazelles and other fast-running animals have breathing canals. Hundreds of small blood veins spread in the large blood accumulations behind these canals. The air the gazelle inhales cools this area and hence the blood that passes through these small blood veins. These small veins then unite in a



single blood vessel that conveys blood to the brain. As a result of this system, the gazelle is not affected by the sharp increase in its body heat while running.

You must have already concluded that such a perfect system could not have come into existence spontaneously over time. That is because the lack of this system, which is required for cooling the brain, would mean the death of the gazelle during its very first run.

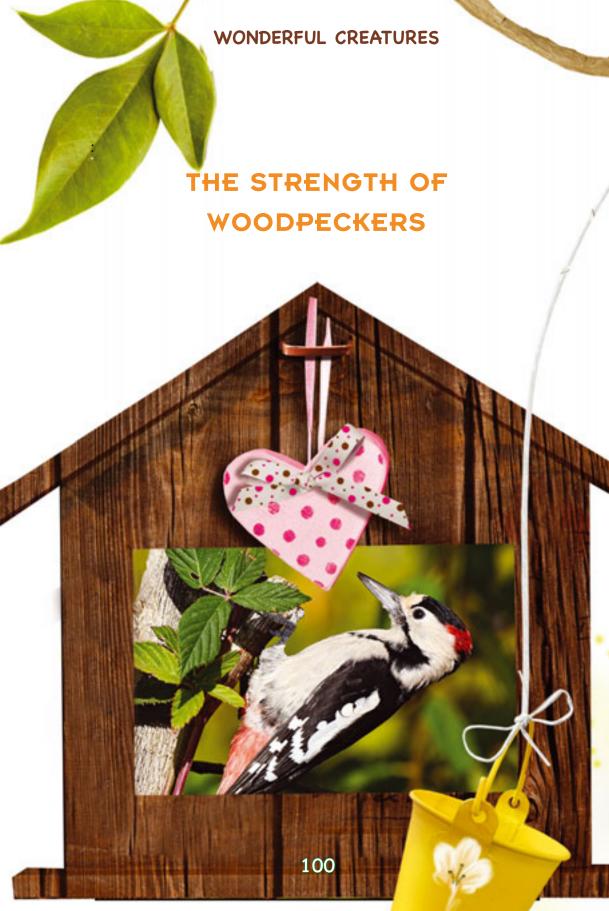
As seen in the cooling system of gazelles, there are perfect structures in living creatures. In other words, the body structure and the organs of a living thing cannot possibly come into existence over

time as claimed by evolutionists.

All creatures have body structures consisting of systems that would not work even if one of the components were missing, such as the cooling system of gazelles. This proves that living creatures did not come into existence over time as a result of coincidences as evolutionists claim, but Allah created them. It is crystal clear to those who can take heed and use their intellect. Allah commands in the Qur'an:

..."The Lord of the East and the West and everything between them if you used your intellect." (Surat ash-Shu'ara': 28)





Woodpeckers make their nests and food stores by pecking holes in trees. The speed at which a woodpecker bores into a tree with its bill is approximately 40 kilometers/hour (25 miles/hour). This, in fact, is an extraordinary speed that might have damaged the woodpecker. However, there is a special locking system in the bird's beak so that it does not sustain injury. If this special system did not exist, the woodpecker's beak would crack in two because of that high speed. Besides, if the impact of the stroke went directly to the brain, then the bird would lose consciousness. Yet, such a thing never happens since Allah created the bird together with what it needs. The woodpecker's brain is placed at the same level as its beak. Muscles on the lower part of the beak act like "shock absorbers" and reduce the shock that occurs while boring into the tree.

What we have mentioned so far are only a few of the general characteristics of woodpeckers. Apart from those mentioned, every woodpecker species has many characteristics peculiar to itself. Now let's consider a kind of woodpecker that hides acorns in trees.

Throughout summer, the acorn woodpecker bores "holes" in a dead tree trunk because at the end of the summer it will fill these holes with acorns, on which it will feed during winter. Acting like

a hammer, it drives one acorn in each hole. This takes a great deal of the woodpecker's time because it tries to find the acorn that fits exactly into the hole it has bored. If the hole is big and the acorn is small, then the loose acorn will easily be taken by other birds. If the hole is smaller than the acorn, then the acorn will be damaged while it is being forced into the hole. Therefore, it takes some time for the woodpecker to place acorns by trial and error.

Yet there is even more that a woodpecker needs to do. As acorns dry over time they become smaller. This means that the woodpecker has to replace dry acorns with fresh ones.

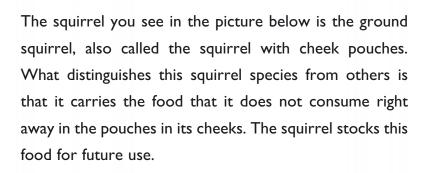
It should also be noted that the woodpecker does not merely store 5 to 10 acorns; an acorn woodpecker can stock approximately 50,000 acorns in a big tree.

Reflecting upon these interesting characteristics, we understand that there is a superior Power Who teaches all these things to woodpeckers. This power is Allah. Allah created the beaks of woodpeckers strong enough to drill bark. It is Allah Who taught them everything they do. There is no other god and Creator besides Allah. Allah informs us that He created everything:

That is Allah, your Lord. There is no god but Him, the Creator of everything. So worship Him. He is responsible for everything. (Surat al-An^cam: 102)



WONDERFUL CREATURES CUTE SQUIRRELS WITH BIG CHEEKS



These cheek pouches are actually loose folds of skin. The interior lining of these folds is bare but not wet, therefore food can be stored in these pouches for a long time without spoiling. These pouches extend to the sides.

To fill these pouches, the squirrel takes an acorn between its paws and cuts off the pointy parts on both ends with its teeth. Then it puts the acorn in one of the pouches and the next acorn in the other. Pouches are filled in this way one after the other. The animal can place four acorns in each pouch. So, the face of the squirrel alters so that we think it is interesting and cute.



THE BIRD WITH THE LONGEST WINGS IN THE WORLD: THE ALBATROSS

Albatrosses are oceanic birds with very large wing spans, of about 3.5 meters (11.5 feet). They spend 92% of their lives at sea and come to land only to breed. The most important characteristic of these birds is that they can fly for a very long time without stopping. They perform this difficult task by means of their style of flight.

In order to fly, it is enough for an albatross to open its wings wide against the wind. In this way, it can fly for hours without flapping its wings at all. The bird does this by extending its wings as wide as possible, and the span of its wings reaches up to 3.5 meters (11.5 feet). This is the largest wing span among

Making use of ascending air currents and winds, the albatross moves in their direction. It proceeds in zigzags in the wind and passes from the top of one current to another. So, the albatross flies

all bird species.

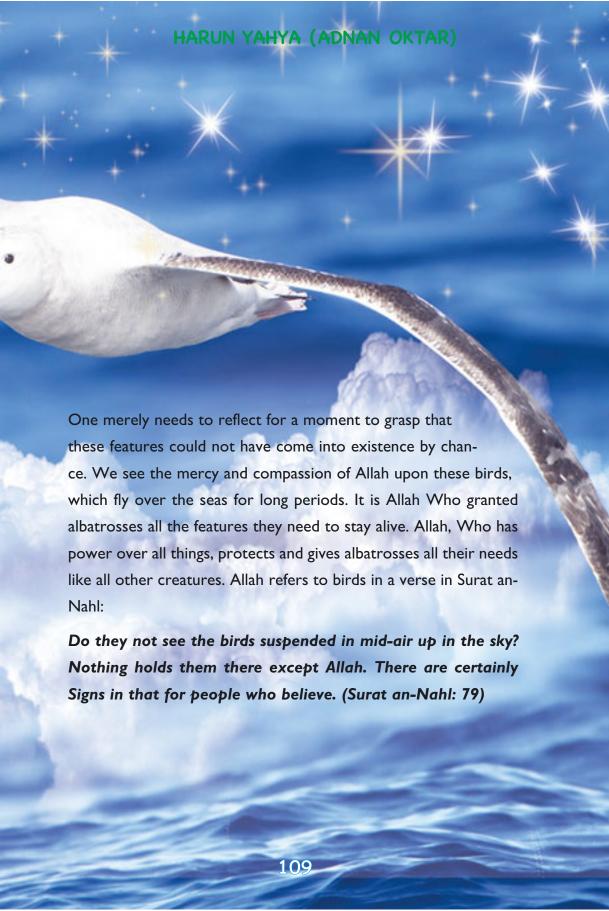


On land, albatrosses walk with a waddle and appear to be very clumsy, but in the air, they are among the most graceful of sea birds.

over the sea for hours without flapping its wings. But how can it perform this quite difficult task? What makes this bird so strong?

First of all, a great amount of energy is needed to keep these giant wings permanently wide open. To have a better understanding of the difficult task albatrosses carry out, let's compare albatrosses with humans. It is difficult for a man even to keep his arms open in the air for a brief time. Soon his muscles begin to ache and he lowers his arms. However, albatrosses can fly suspended in the air for hours with their wings wide open.

There is a locking system inside the wing bones of albatrosses that enables them to keep their wings open. By means of this locking system, they don't use any muscular strength. This makes flight much easier for the bird. By virtue of this special system, it can fly without stopping for days, weeks, or even for months expending only a very little amount of energy.





ADORNMENT ARTISTS: BOWERBIRDS

Did you know that there are birds that adorn their nests? Just like humans who decorate the place in which they live, some bird species adorn their nests too. The behaviors of these birds are certainly amazing; sometimes they embellish their nests with the decorative objects they collect or paint the walls of their nests with pink fruits.

The bowerbird, which is one of the birds that paint their nests, is a real "master of architecture". The size of a male bowerbird is like that of a pigeon. While building its nest, it arranges hundreds of thin branches in two lines each facing one another. This way it builds a bower. It piles up all the stuff it picks from the environment in front of this bower. This may even be a butterfly's wing, a bird's feather, a

car key or some wrapping paper. This bird is particularly

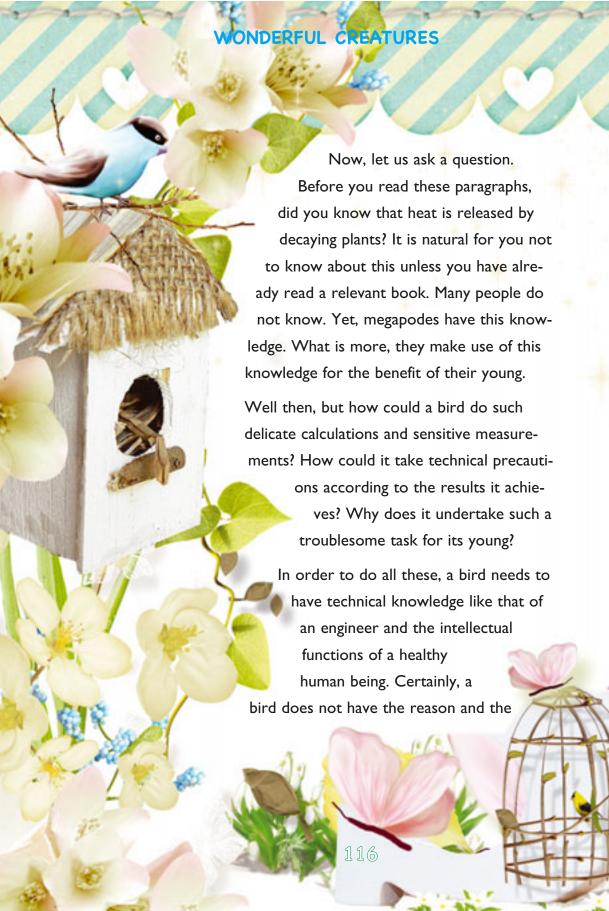












HARUN YAHYA (ADNAN OKTAR)

brain to act like an intelligent and learned person. There is a Power Who directs and makes the megapode carry out these tasks, which require intellect. This power is Allah, Who created everything in the most beautiful way.

As you read this book, you immediately see that these creatures cannot do all these wonderful things by themselves and you understand that Allah created all of them. Yet, there are some people who refuse to accept this fact, which you have understood at once. Allah has informs us of these people in the Qur'an. In Surat ar-Ra'd, Allah states:

Say: "Who is the Lord of the heavens and the earth?"

Say: "Allah." Say: "So why have you taken protectors apart from Him who possess no power to help or harm themselves?" Say: "Are the blind and seeing equal? Or are darkness and light the same? Or have they assigned partners to Allah Who create as He creates, so that all creating seems the same to them?" Say: "Allah is the Creator of everything. He is the One, the All-

Conquering." (Surat ar-Ra'd: 16)



THE POWERFUL MEMORY OF JAYS

Jays gather acorns and bury them in the ground for future use. Sometimes they bury up to a thousand acorns in a day. Everything in a forest looks alike. This is why it is difficult even for human beings to find a certain place in a forest. So how can jays find the places where they have hidden their acorns? They act intelligently and mark these places using tree branches or pieces of stone. Still, it is quite difficult to find something buried in a forest. However experiments have revealed that these birds can find their acorns even nine months later. It is a miracle of creation that these birds have such a powerful memory that they can mark the places where they hide their food and then remember these places.

It is certainly not possible to explain the decision of a jay, which does not have intellect as we understand it, to hide acorns by burying them in the ground or marking these secret places to find them in the future as occurring by coincidence.

Burying a thousand acorns and marking their places with stones and branches in an orderly way is certainly something that a bird cannot achieve on its own. It is very natural for a bird to eat an acorn as soon as it finds it. However, only an intelligent being can save it for future use, mark the place where it is hidden and know this mark later.

A bird cannot do any of these by itself. Therefore, we see that there is a Being Who possesses endless wisdom, has power over all things



THE ARMORED TANKS OF THE ANIMAL KINGDOM

These animals of South America, which are called armadillos, have a very interesting appearance because of the armor covering their bodies.

These creatures feed on insects and usually search for food by digging in the ground. Armadillos have a keen sense of smell.

Perceiving the scent of food, the armadillo embeds its nose in the ground and quickly delves into it as if it



were afraid of losing the scent. One might wonder how the armadillo manages to breathe while doing this. However, armadillos do not breathe at that moment. Indeed, they are capable of holding their breath for up to six minutes. This prevents them from choking while digging into the ground.

As a result of this ability to hold their breath for a long time, which Allah bestowed on them, armadillos can dig into the ground and find their food. This example manifests Allah's mercy and compassion towards the living creatures that He created. In a verse in Surat ash-Shu'ara', Allah introduces Himself to us:

Truly your Lord is the Almighty, the Most Merciful. (Surat ash-Shu'ara': 9)

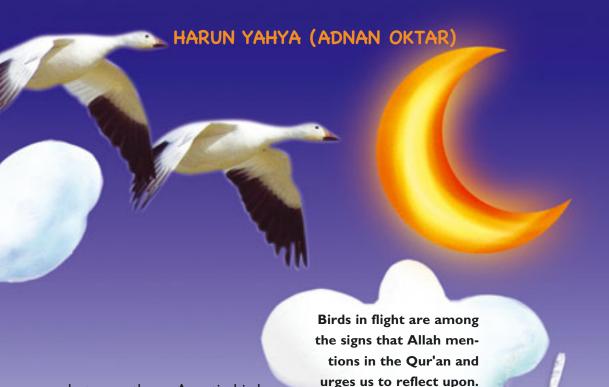


MIGRATORY BIRDS THAT CAN FLY EVEN IN THE DARK OF THE NIGHT

Many bird species travel thousands of kilometers every year to regions where they can find rich sources of food and where they can lay their eggs and raise their offspring. Allah refers to the flight of birds in a verse in Surat al-Mulk:

Have they not looked at the birds above them, with wings outspread and folded back? Nothing holds them up but the All-Merciful. He sees all things. (Surat al-Mulk: 19)

Many aquatic birds successfully make long-distance flights. This is a result of their strong body structure and to the communication



between them. Aquatic birds

communicate with each other

while flying by means of singing and

producing different sounds. This holds every member

of the flock together even in the dark of the night,

no matter how great their numbers.

Every member of the flock knows where the others are. Scientists suppose that water birds use the sun to reckon their location. Once they are close to their destination, they recognize certain marks. This is similar to your using certain streets and buildings to find your way home. Likewise,



aquatic birds follow rivers, mountains and other landmarks. Some aquatic birds can fly without stopping night and day during their migration.

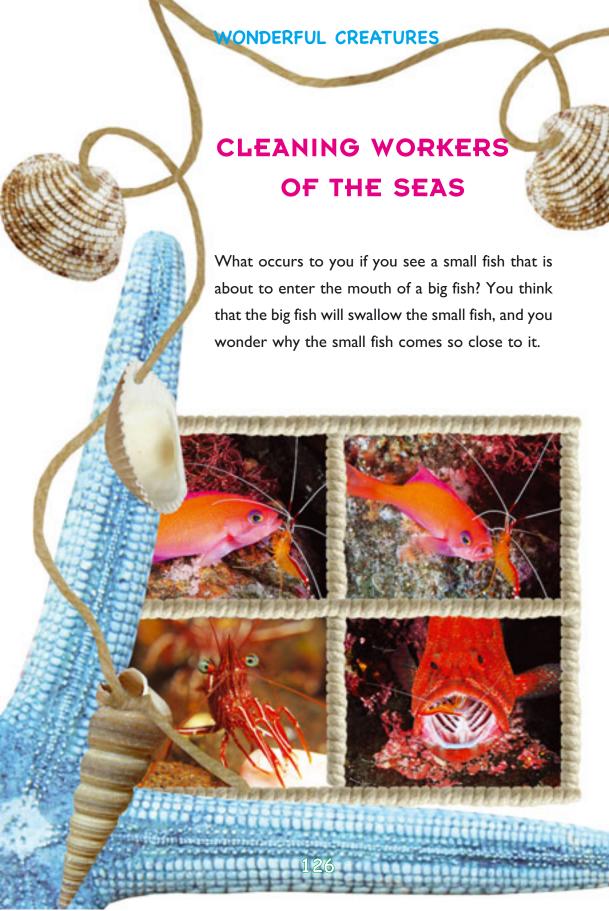
The skill in locating direction is peculiar to human beings, who have intellect. Man can locate direction by using some technical instruments or by the help of the sky. But, how do birds find their way? How can they make use of the sun's position or of other signs?

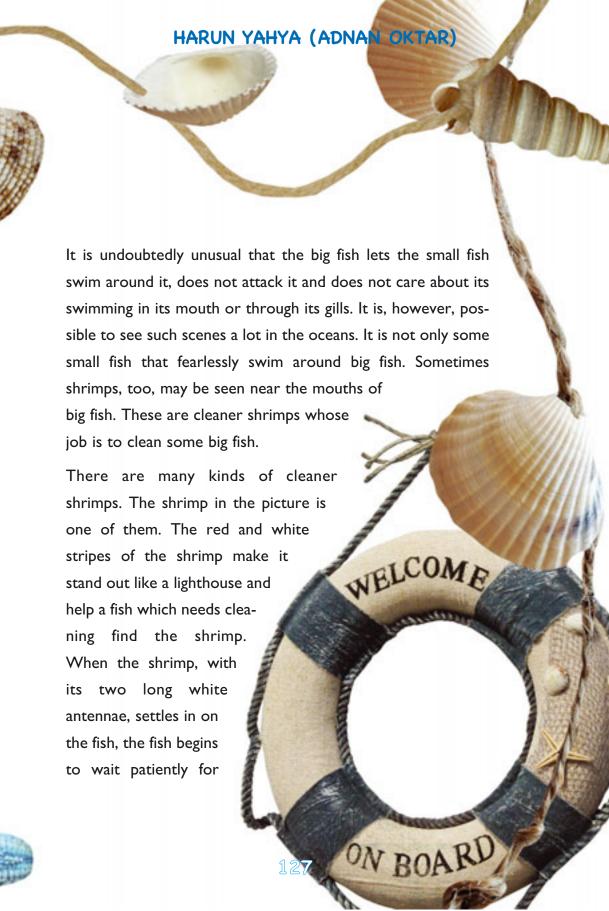
It is Allah the Almighty Who bestowed this wonderful skill upon birds, and created a special communication system among them. Allah manifests His artistry in creation with all the characteristics and features He creates in living things. In the verse "Have they not



looked at the birds above them, with wings outspread and folded back?" Allah draws our attention to birds' flight. He wants us to reflect on these abilities He has bestowed upon birds. Thinking this way, we come across intelligent behavior and perfect bodily systems that creatures cannot possibly develop on their own. Reflecting on what we see, we realize that Allah teaches them what to do.

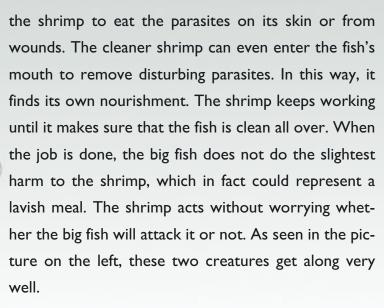
Then you should reflect upon such facts and share your thoughts with other people. Make sure they grasp Allah's exaltedness and that it is Allah Who created everything.



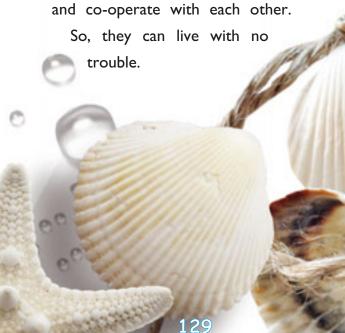




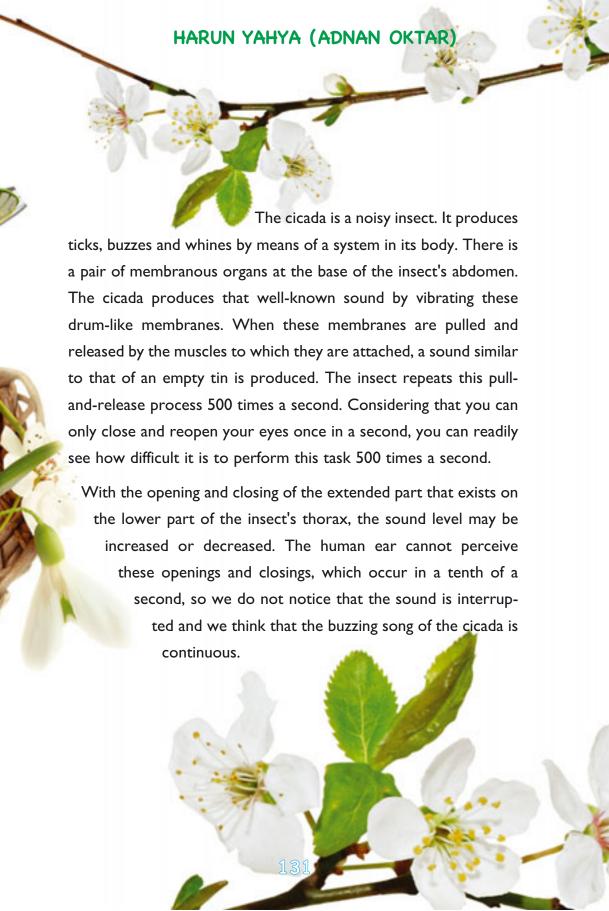
HARUN YAHYA (ADNAN OKTAR)



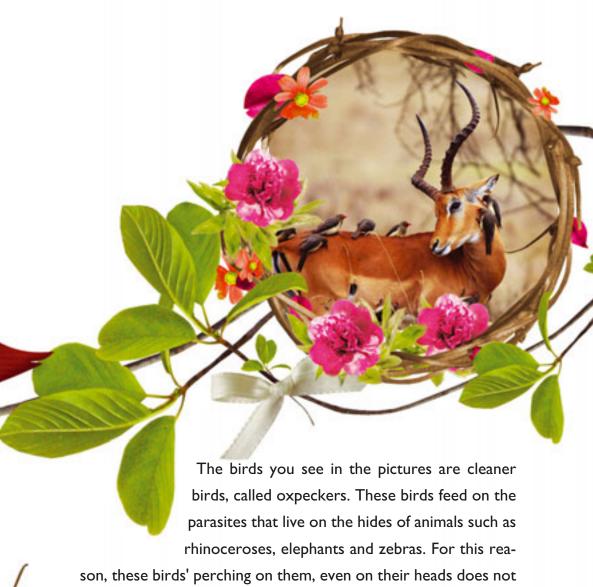
Concepts like "getting along well", "giving guarantee" are peculiar to humans, who have intellect and intelligence, and therefore cannot apply to these creatures. Yet, Allah, Who has control and power over all things, taught these creatures to behave so, to trust











annoy such animals.

This partnership benefits both sides a lot. In this way, the animals get rid of bothersome parasites and are also warned by the birds, which screech in case of danger. In return, the birds obtain food and even hair to cover the inside of their nests.

Allah created this mutually beneficial relationship between animals. Allah created all these creatures along with the creatures that meet their needs.

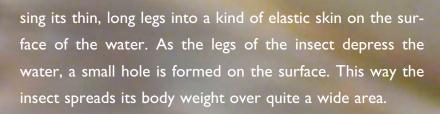


POND SKATERS THAT WALK ON WATER

It is impossible for human beings to walk on the surface of water. Yet some creatures can do so by means of the special body structures that Allah has given to them. For example, an insect species called the pond skater walks on water by pres-







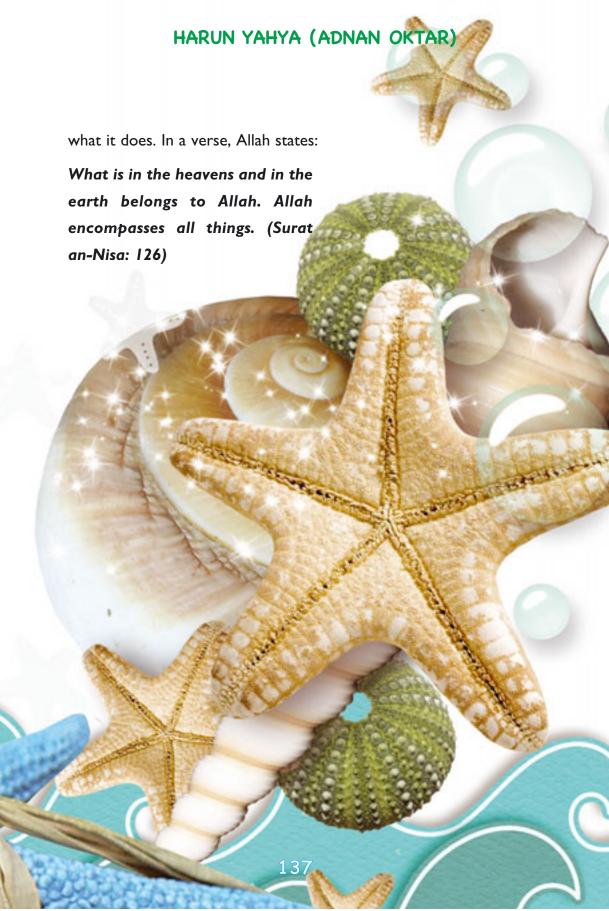
Observation and examination reveal that the legs of the pond skater do not break the surface of the water. In other words, its feet do not enter the water. Therefore, the pond skater is able to walk on the surface while other creatures cannot.



TENACIOUS SUCKERFISH

What is special about suckerfish is that they use vessels to get around the ocean. For this, they may use sharks or ships. The dorsal fin of the fish is like an oval sucking disc. It can move along with anything it attaches itself to, whether animate or inanimate. Whatever the creature to which it is attached does or no matter how fast it swims, the suckerfish does not become detached from it. In the picture above, suckerfish that are attached to the underside of a shark are seen. Allah knows where every creature is and



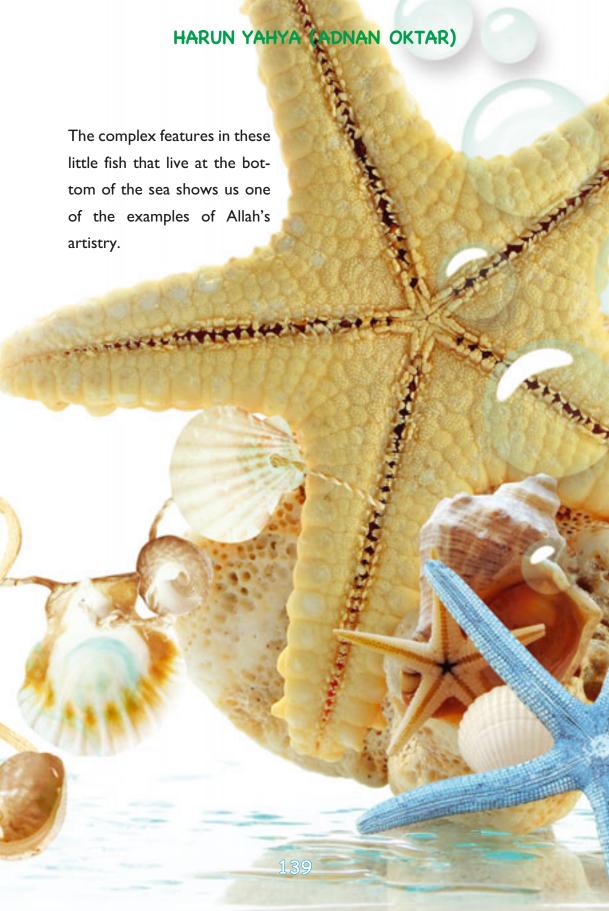


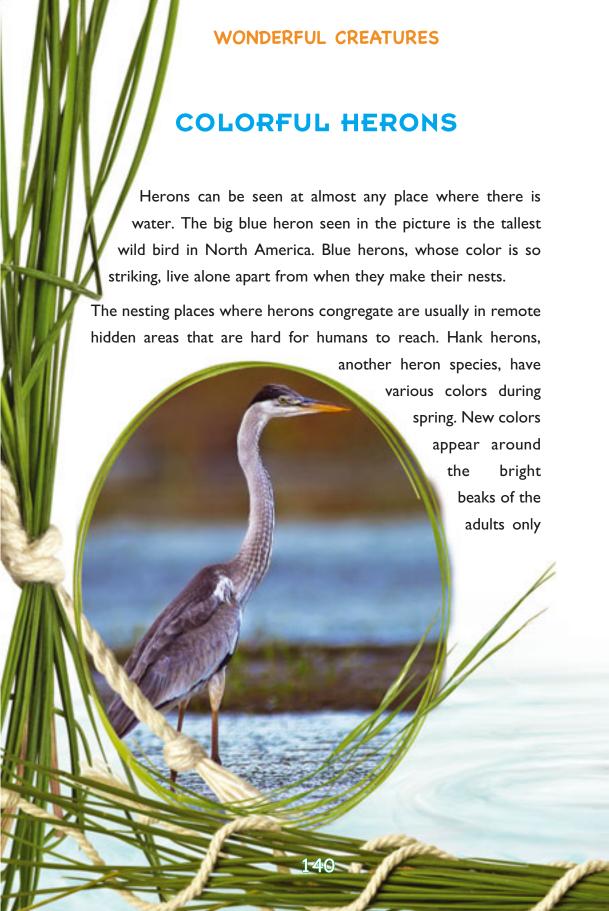
WALKING FISH WITH RED LIPS

The batfish, with its red lips, is the only fish in the world that walks on its four fins. Fins that are created to enable walking, a weird-looking nose and big red lips make the appearance of this fish quite unusual. What enables the batfish to walk on the sea floor like a human being is its pectoral and pelvic fins. Using these fins, the bat-fish can easily stand on the sea floor and walk on the tips of its fins.

Apart from this ability, the batfish with red lips has another interesting feature. It has small appendages below its nose, which it uses as a fishing line to deceive other fish. Batfish are carnivorous. Using their fishing lines, they prey upon other fish, crabs, larvae and cockles.









during nesting time.

Allah created birds in very different colors. We enjoy looking at the eye-catching colors in a bird's feathers. This wide variety of colors in birds is one of the proofs of Allah's marvelous creation. In the Qur'an, Allah relates that it is He Who creates these colors:

Do you not see that Allah sends down water from the sky and by it We bring forth fruits of varying colors? And in the mountains there are streaks of white and red, of varying shades, and rocks of deep jet black. And mankind and beasts and livestock are likewise of varying colors. Only those of His slaves with knowledge have fear of Allah. Allah is Almighty, Ever-Forgiving. (Surah Fatir: 27-28)







It is only by the inspiration of Allah that parakeets organize their lives in compliance with climatic conditions. Since the survival of their species is essential, they do not take any risks and stop breeding at once. Our Lord, Who knows everything and is well aware of His creatures, inspires them to behave so wisely. In a verse in Surat al-Isra', Allah says:

The seven heavens and the earth and everyone in them glorify Him. There is nothing which does not glorify Him with praise but you do not understand their glorification. He is All-Forbearing, Ever-Forgiving. (Surat al-Isra': 44)



THE STRUCTURE OF BIRDS' FEATHERS

The most important difference that distinguishes birds from other creatures is surely their ability to fly. Birds can fly by means of their feathers, which in fact have a very special structure.

A bird feather is a light structure that has lift force and can easily regain its original shape. If we examine a bird's feather under a microscope, we see a marvelous creation. In the middle part of

the feather is a hard central shaft with a series of paired branches called barbs on either side. These barbs, whose lengths and softness vary, enable the bird to fly in the air.

As we examine the subject in further detail, we encounter even more interesting structures. Minute hairs called "barbules" project from each barb. Barbules cannot be seen with the naked eye. On these barbules are little hooks. The barbules are interlocked by these hooks, just like a zipper.

The hooks are clamped together like the two rows of a zipper. The barbules held together by hooks are so close to each other that not even smoke can pass through them. If these hooks are some-





how unlocked, it is enough for the bird to shake itself or to put its feathers in order with its beak, to make the feathers return to their previous state.

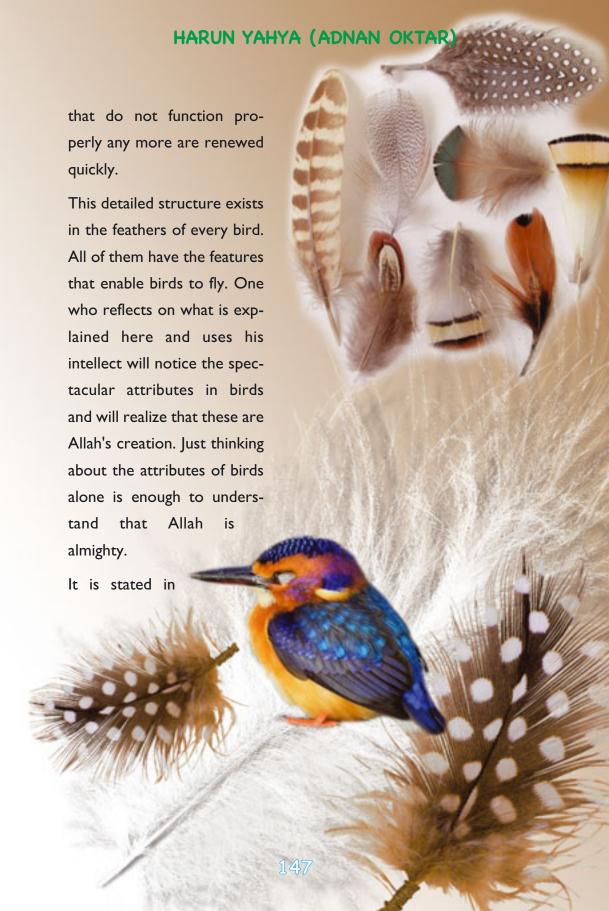
In order to survive, birds must always keep their feathers clean,

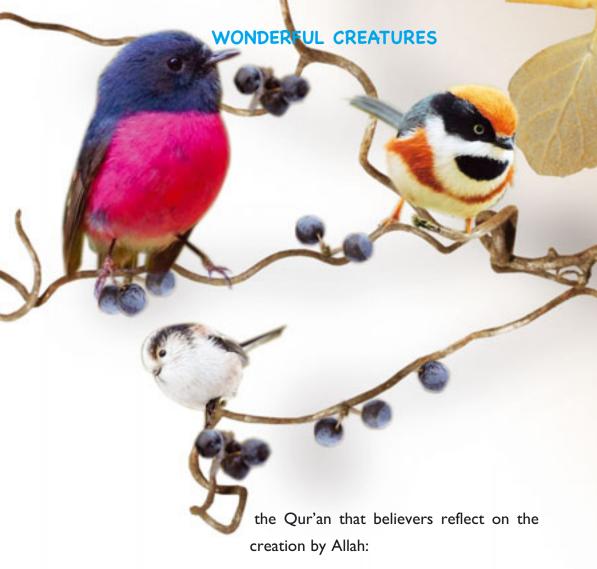
neat and ready for use. For the care of their

feathers, they use oil sacs at the bottom of their tails. They take some oil with their beak, and then clean and polish their feathers. In swimming birds, this oil prevents water from reaching their skin when they are in the water or in the rain.

In addition, birds can prevent loss of body heat by ruffling their feathers in cold weather. In hot weather, on the other hand, they keep their body cool by smoothing their feathers.

Each group of feathers in a particular part of the body has particular functions. For example the down feathers and the feathers that lie along the wings and tail have different structures. Large tail feathers are used for steering as well as for braking. As the wing feathers are spread wide while flying, the surface area is expanded and lift force increased. When the bird flaps its wing downwards, these feathers come closer and prevent air passing through. As the wings move up, the feathers open wide and permit air to pass through them. In order to maintain their ability to fly, birds shed their feathers at certain times of the year. Large torn or worn out feathers





The kingdom of the heavens and earth belongs to Allah. Allah has power over all things. In the creation of the heavens and the earth, and the alternation of night and day, there are Signs for people with intelligence: those who remember Allah, standing, sitting and lying on their sides, and reflect on the creation of the heavens and the earth (and say): 'Our Lord, You have not created this for nothing. Glory be to You! So safeguard us from the punishment of the Fire. (Surah Al 'Imran: 189-191)



WONDERFUL CREATURES

BIRDS' TECHNIQUES FOR GLIDING

It requires a great deal of energy to fly. However, birds are small creatures and the energy they can store in their bodies is limited. Birds obtain most of the energy they need by means of applying special flying techniques. Gliding in the air without flapping their wings is one of the techniques that they use most. For example, vultures employ a special method based on rising heat currents in order to glide at a convenient altitude. Gliding from one current to another, they can cover a vast area in a day.

Migratory birds, too, make use of gliding techniques to save energy. Storks, for example, use heat currents to fly during migration. White storks of central Europe migrate to spend winter in Africa and cover a distance of about 7,000 kilometers (4,350 miles). If they were to flap their wings all the way to their destination, they would have to take four breaks during the journey. Yet white storks complete their journey in three weeks by gliding between the heat currents for 6-7 hours a day and thus saving most of their energy.

Since the sea warms up more slowly than the land, there are no heat currents over the sea. For this reason, migratory birds prefer to migrate over land instead of making long sea journeys. You may have seen flocks of storks that cover the sky at certain times of the year. That is because storks, too, prefer to migrate over land. You

may not be aware of the fact that there is no warm air over the sea, but storks know it very well.

On the other hand, albatrosses, seagulls and other sea birds save energy by using air currents caused by high waves. These sea birds that fly over the waves benefit from

the lift force of the air that turns upwards.

As seen in the examples given here, all birds know which techniques they will use, where they will go and which route they will take. No confusion arises for those that fly by using warm air currents and those that fly by using air currents caused by the waves. This is because Allah inspires every creature with the knowledge it needs. In the Qur'an, Allah points out birds' movements in the air and states:

Do you not see that everyone in the heavens and earth glorifies Allah, as do the birds with their outspread wings? Each one knows its prayer and glorification. Allah knows what they do. (Surat an-Nur: 41



THE WATER BIRD THAT CUTS
THROUGH THE WATER LIKE
SCISSORS

Most birds cannot fly if their wings come into contact with water because water causes their feathers to stick to each other, which disables the bird by stopping it moving its wings. However, although aquatic birds dive into water all day, nothing happens to them. You must be wondering how and why, are you not?

There is a special oil on the wings of water birds that prevents feathers from sticking to each other when wet. This is how these birds can dive into water with no trouble. However, the skimmer, a species of water bird, lacks this oil. Therefore, unlike other water birds, it cannot dive into water to hunt. How, then, will it find its nourishment when it cannot enter water?

Allah, the All-Merciful, All-Compassionate, has created the lower beak of the bird longer than its upper beak. The tip of the longer, lower beak is sensitive to touch. In addition, the wings of this aquatic bird have been created so perfectly that it can glide just above the sea for a long time without flapping its wings at all. While flying, it breaks the surface of the water using its lower beak like scissors. As soon as the sensitive tip of the beak touches its prey, the bird immediately detects and catches it. This bird is one of the proofs that Allah is the Originator of all creatures.

WONDERFUL CREATURES

CUTTLEFISH LIKE JET ENGINES

Although it is called a "fish", unlike other fish, cuttlefish have no bones in their bodies. You may wonder how these boneless fish move along in water. Indeed, cuttlefish use a quite unusual means of locomotion. The body of a cuttlefish, which is composed of soft tissues, is covered with a thick layer of skin. By means of muscles below this layer, a cuttlefish collects water within its body and moves by squirting this water out.

The system of the cuttlefish based on squirting water is quite complicated. There is a pocket-like opening on each side of the creature's head. The water is drawn through these openings into a cylinder-like cavity. Then the cuttlefish jets out this water from a narrow pipe immediately under its head with great pressure. This enables the animal to move swiftly in the opposite direction and flee from predators because it can accelerate very suddenly. You may

wondering what would happen if it cannot move fast enough. In this case the cuttlefish sprays a dark colored liquid produced in its body towards its enemy. This spray of ink confuses the predator for a few seconds, which is enough for the cuttlefish to get away. It flees and disappears in the spray of ink.



As with all other living creatures, this feature of the cuttlefish is the creation of Allah, the Creator of everything. Allah informs us

that there is no other god besides Him:

That is Allah, your Lord. Sovereignty is His. There is no god but Him. So what has made you deviate? (Surat az-Zumar:





Greylag geese can fly at high altitudes of about 8,000 meters (5 miles). This is in fact quite a difficult task since many creatures cannot breathe at such altitudes because of the lack of oxygen available at high altitudes. This deficiency makes respiration difficult. That is why we can hardly breathe when we climb up a high mountain. Flying at an altitude with a rarefied atmosphere, the bird needs to





which makes the situation even more difficult for it. However, these birds do not experience any difficulty even while they are flying at altitudes of thousands of meters. That is a result of the special creation of their lungs, which make the most of the rare oxygen at high altitudes.

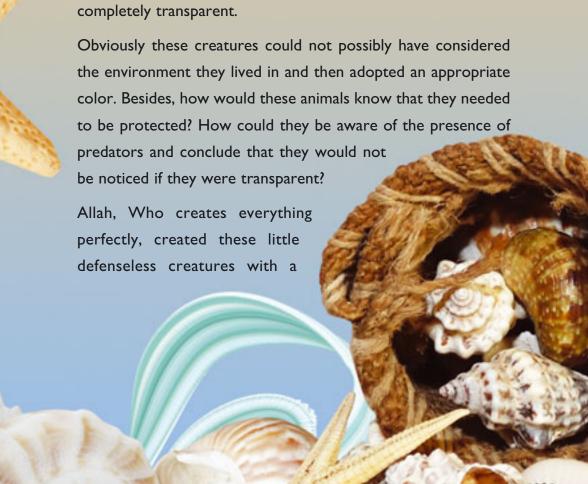
Functioning in a different way than those of other creatures, these birds' lungs enable them to obtain more energy from the rarefied atmosphere. And this is one of the signs of Allah's perfect creation.

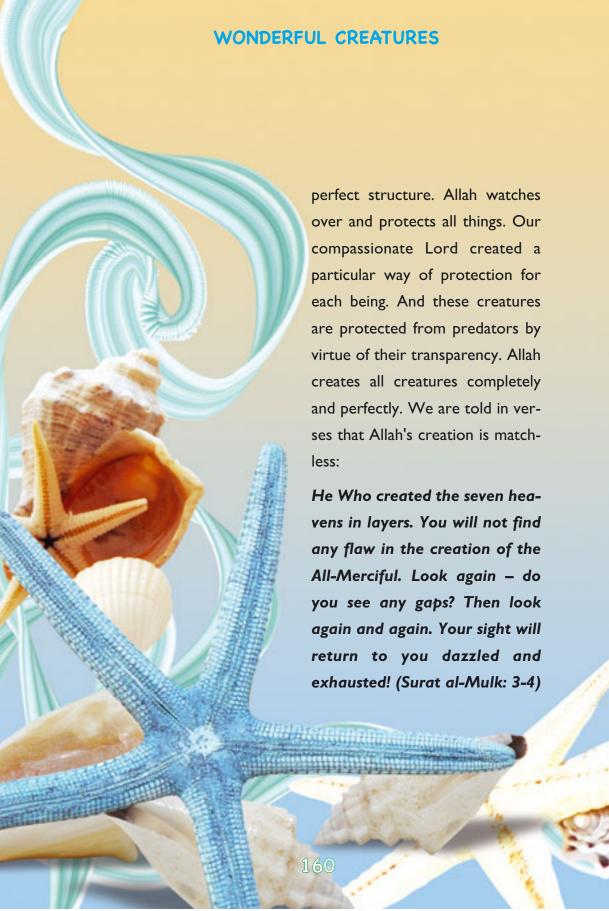




A MATCHLESS SECURITY SYSTEM

Some creatures living near the surface of water are susceptible to dangers both from above the water and from beneath. These creatures have an amazing security feature; they are transparent. As you can see in the pictures, they go unnoticed by their enemies. Likewise, crab, shrimp and fish larvae are created almost completely transparent.









CONCLUSION

Children,

In this book, we have looked at some examples of the miraculous creatures that Allah has created. By describing the amazing features and various intelligent behavior patterns in these creatures, we have tried to help you comprehend once again that these could not have come into existence by themselves and that Allah created them all.

As you will be well aware, the examples given in this book are only a small sample of the creatures living in the world. There are many other species, numbering in the millions, living in the sea, on land or in the air. All these creatures have different bodily systems and different patterns of behavior. For example a bird never behaves like a tiger, and the way an elephant feeds is not the same as that of a duck. A crocodile lives both in water and on land, whereas a monkey cannot live in water. In short, the characteristics and features of species are particular to themselves; their appearance, the way they feed and care for their offspring are different from each other.

You already know that it is our Lord

Who created all these creatures together with their particular characteristics and Who taught them all the things they do. If you did not know before, then you will certainly have realized as you read this book. Now tell others what you've learnt. Tell them that Allah created all creatures, and that the remarkable diversity of creatures manifests the unequalled wisdom of our Lord.

In the meantime, never forget that Allah will love you more and will create many more beauties for you both in the world and in the hereafter in return for what you do. Never forget that it is very easy to be a person Allah the Almighty, the Possessor of everything, loves. By telling other people about the existence of Allah and by acting well, you become a right-acting person. In these verses, Allah gives glad tidings to good-doers:

Not so! All who submit themselves completely to Allah and are good-doers will find their reward with their Lord. They will feel no fear and will know no sorrow. (Surat al-Baqara: 112)

Those who perform good actions will receive better than them and will be safe that Day from fear. (Surat an-Naml: 89)

