THE FACT OF CREATION SERIES FOR KIDS -2-

HONEYBEES

THAT BUILD PERFECT COMBS





بسم الله الرحمن الرحيم



ABOUT THE AUTHOR

The author, who writes under the pen-name HARUN YAHYA, was born in Ankara in 1956. He studied arts at Istanbul's Mimar Sinan University and philosophy at Istanbul University. Since the 1980s, the author has published many books on political, faith-related and scientific issues. Harun Yahya is well-known as an author who has written very important works disclosing the forgery of evolutionists, the invalidity of their claims and the dark liaisons between Darwinism and bloody ideologies.

His pen-name is made up of the names "Harun" (Aaron) and "Yahya" (John), in memory of the two esteemed prophets who fought against lack of faith. The Prophet's seal on the cover of the author's books has a symbolic meaning linked to the their contents. This seal represents the Qur'an as the last Book by God and the last word of Him and our Prophet, the last of all the prophets. Under the guidance of the Qur'an and Sunnah, the author makes it his main goal to disprove each one of the fundamental tenets of disbelieving ideologies and to say the "last word", so as to completely silence the objections raised against religion. The seal of the Prophet, who attained ultimate wisdom and moral perfection, is used as a sign of his intention of saying this last word.

All these works by the author centre around one goal: to convey the message of the Qur'an to people and thus to encourage them to think about basic faith-related issues, such as the existence of God, His unity and the hereafter, and to remind them of some important issues.

Harun Yahya enjoys a wide readership in many countries such as India, America, England, Indonesia, Poland, Bosnia, Spain and Brazil. His books have been translated into many languages, and English, French, German, Italian, Portuguese, Urdu, Arabic, Albanian, Russian, Serbo-Croat (Bosnian), Uygur Turkish, and Indonesian versions are available.

Greatly appreciated all around the world, these works have been instrumental in many people putting their faith in God and in many others gaining a deeper insight into their faith. The wisdom, and the sincere and easy-to-understand style employed give these books a distinct touch which directly strikes any one who reads or examines them. Immune to objections, these works are characterised by their features of rapid effectiveness, definite results and irrefutability. The explanations provided in the books are undeniable, explicit and sincere, and enrich the reader with definitive answers. It is unlikely that those who read these books and give a serious thought to them can any longer sincerely advocate the materialistic philosophy, atheism and any other perverted ideology or philosophy. Even if they continue to advocate, this proves to be only a sentimental insistence since these books refute these ideologies from their very basis. All contemporary movements of denial are ideologically defeated today, thanks to the collection of books written by Harun Yahya.

There is no doubt that these features result from the wisdom and lucidity endowed them by God. The author certainly does not feel proud of himself; he merely intends to serve as a means in one's search for God's right path. Furthermore, the author makes no material gains from his books. Neither the writer, nor those who are instrumental in publishing and making these books accessible to the reader, make any material gains. They merely serve to earn the good pleasure of God.

Considering these facts, those who encourage people to read these books, which open the "eyes" of the heart and guide them in becoming more devoted servants of God, render an invaluable service.

Meanwhile, it would just be a waste of time and energy to propagate books which create confusion in people's minds, lead people into ideological chaos, and which clearly have no strong and precise effects in removing the doubts in peoples' hearts. It is apparent that it is impossible for books devised

to put the stress on 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 moral values of the Qur'an. The success, impact and sincerity this service has rendered are manifest in the reader's conviction.

One point needs to be kept in mind: The main reason for the continuing cruelty and conflict, and all the ordeals Muslims undergo is the ideological prevalence of lack of religion. These things can only come to an end with the ideological defeat of lack of faith and by ensuring that everybody knows about the wonders of creation and Qur'anic morality, so that people can live by it. Considering the state of the world today, which forces people into the downward spiral of violence, corruption and conflict, it is clear that this service has to be provided more speedily and effectively. Otherwise, it may be too late.

It is no exaggeration to say that the Harun Yahya series have assumed this leading role. By the Will of God, these books will be the means through which people in the 21st century will attain the peace and bliss, justice and happiness promised in the Qur'an.

The works of the author include The Disasters Darwinism Brought to Humanity, Communism in Ambush, The Bloody Ideology of Darwinism: Fascism, The 'Secret Hand' in Bosnia, The Holocaust Hoax, Behind the Scenes of Terrorism, Israel's Kurdish Card, A Weapon of Satan: Romantism, Solution: The Morals of the Qur'an, The Evolution Deceit, Perished Nations, For Men of Understanding, The Prophet Musa, The Prophet Yusuf, The Golden Age, Allah's Artistry in Colour, Glory is Everywhere, The Truth of the Life of This World, Knowing the Truth, The Dark Magic of Darwinism, The Religion of Darwinism, The Qur'an Leads the Way to Science, The Real Origin of Life, The Consciousness of the Cell, The Creation of the Universe, Miracles of the Qur'an, The Design in Nature, Self-Sacrifice and Intelligent Behaviour Models in Animals, The End of Darwinism, Deep Thinking, Never Plead Ignorance, A String of Miracles, The Western World Turns to God.

Among his children books are Children Darwin Was Lying!, The World of Animals, Honeybees That Build Perfect Combs, The World of Our Little Friends The Ants.

The author's other works on Quranic topics include: Devoted to Allah, Abandoning the Society of Ignorance, Paradise, Knowledge of the Qur'an, Qur'an Index, Emigrating for the Cause of Allah, The Character of Hypocrites in the Our'an, The Secrets of the Hypocrite, The Names of Allah, Communicating the Message and Disputing in the Qur'an, Answers from the Qur'an, Death Resurrection Hell, The Struggle of the Messengers, The Avowed Enemy of Man: Satan, Idolatry, The Religion of the Ignorant, The Arrogance of Satan, Prayer in the Our'an, The Importance of Conscience in the Our'an, The Day of Resurrection, Never Forget, Disregarded Judgements of the Qur'an, Human Characters in the Society of Ignorance, The Importance of Patience in the Qur'an, General Information from the Qur'an, The Mature Faith, Before You Regret, Our Messengers Say, The Mercy of Believers, The Fear of Allah, The Nightmare of Disbelief, Prophet Isa Will Come, Beauties Presented by the Qur'an for Life, Bouquet of the Beauties of Allah 1-2-3-4, The Iniquity Called "Mockery", The Secret of the Test, The True Wisdom According to the Qur'an, The Struggle with the Religion of Irreligion, The School of Yusuf, The Alliance of the Good, Slanders Spread Against Muslims Throughout History, The Importance of Following the Good Word, Why Do You Deceive Yourself?, Islam: The Religion of Ease, Enthusiasm and Vigor in the Qur'an, Seeing Good in Everything, How does the Unwise Interpret the Qur'an?, Some Secrets of the Qur'an, The Courage of Believers, Being Hopeful in the Qur'an, Justice and Tolerance in the Qur'an, Basic Tenets of Islam.

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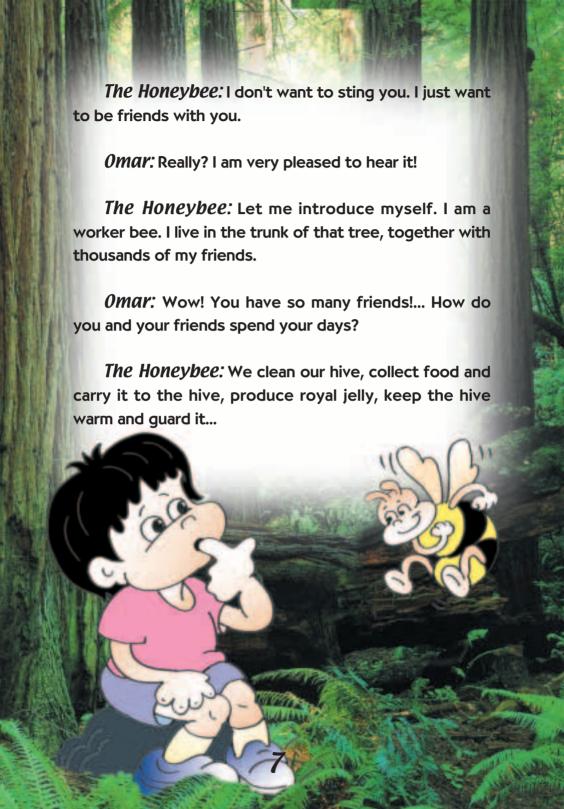
HARUN YAHYA

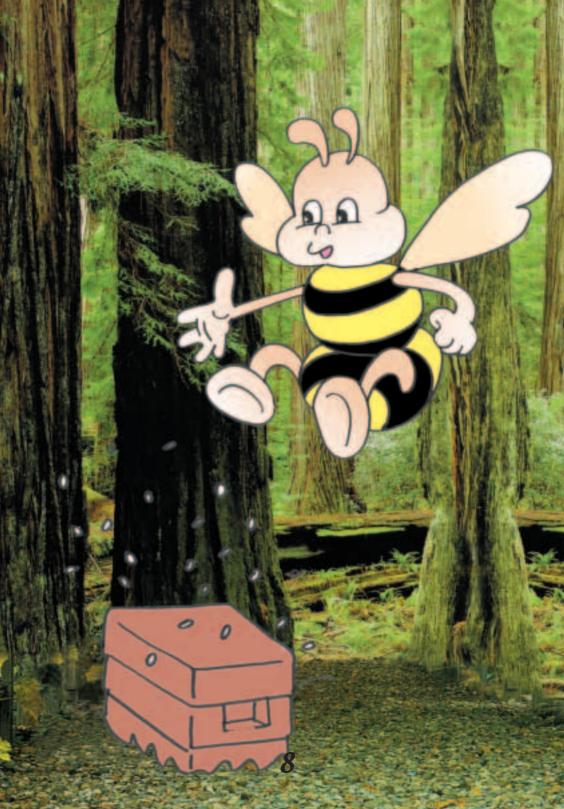


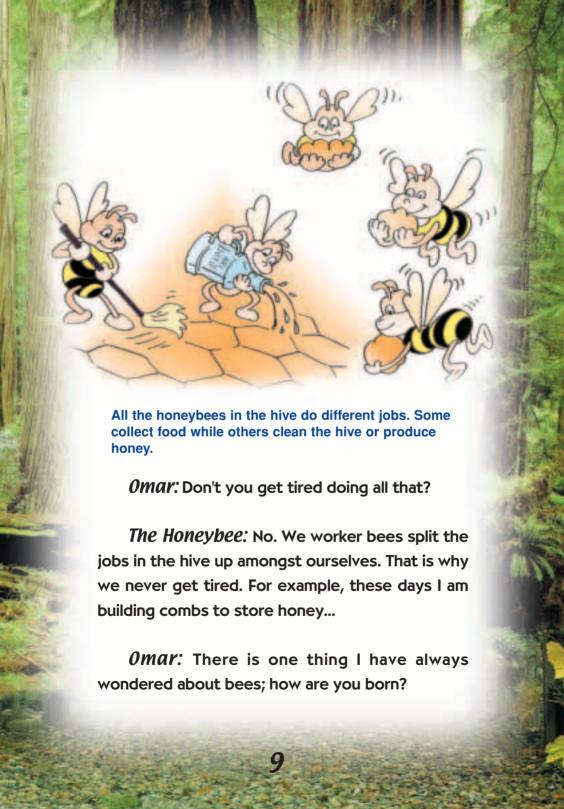
ou all know about honeybees. Many of you have probably seen them in cartoons on TV, or even in real life, buzzing around. But I bet there are still many things you do not know about them...

Not long ago, mom and dad and I went to the woods to go jogging. I had a great time there. But what pleased me most was a new friend I made there while we were having a rest. It was quite tiny, but it meant a lot to me. I will never forget this little friend of mine.

You are probably wondering who it was, aren't you? Well, it was a lovely honeybee. It came up to me and flew around for a while. At first, I was afraid of being stung because it came very close... I screamed: "Don't! Please don't sting me. I don't want to be hurt!" And just then, something very strange happened, for the honeybee started talking to me.







The Honeybee: You have probably heard that there is a queen in every honeybee colony. The queen bee is the biggest of all the female bees. She lays eggs at certain times. But we do not hatch from the eggs straight away. What hatch from these eggs are white grubs, called larvae, with no eyes, wings or legs, and which do not look like us at all. For a while, they remain wrapped in a cocoon. In the meantime, they are fully fed and then emerge from the cocoon looking exactly like me.

Omar: That is amazing! I am still curious about one more thing though! Being so crowded, isn't there any disorder in your hive?

The Honeybee: Never. On the contrary, it's really well ordered. Thousands of bees live together in great harmony while we do all our jobs.

Omar: That is really very interesting! I still can't understand how you can manage to keep order although there are so many of you! My dad is the manager of our building, and he really has a hard time keeping order there. But you say you have no such problem!



The Honeybee: You are right to be surprised. I know that scientists are amazed by this too, and look for answers to the questions of how order is kept, how each honeybee knows what its job is supposed to be, and how such a large number of bees can act together so well! I can tell you the answer quite quickly: We all have certain tasks; we work hard and carry them out as best as we can and try not to disturb the order in the hive.

While listening to the worker bee in wonder, I heard my mom calling, "Omar! Omar! Where are you?" It was time for me to leave.

Omar: My mom is calling me. I think I have to go now. I am so pleased to meet you. Thanks for everything you told me!



The Honeybee: I also enjoyed your company. Maybe, we can meet again! How about meeting here again next week? If you like, I can take you to our hive and show you the combs.

Omar: That would be great! But only if my parents agree to come here again, of course.

The Honeybee: O.K., hope to see you next week!





As soon as I got home, I took out the encyclopaedia of animals my dad had given me as a birthday present. I quickly turned the pages and found the section on honeybees. The first thing that struck my eye was a little picture of a honeybee. I felt that I was already missing my little friend...

I read the book with wonder. I was so amazed by the things I read that I did not notice how much time had passed. My mom wondered what I was doing in my room for so long and came to look for me. I excitedly started to tell her all about bees.

Omar: Mom, did you know that honeybees are really fascinating? For instance, let me tell you the last thing I



read here; you have probably heard that female honeybees do the cleaning in the cells. They throw out all the particles left behind by the bees hatching from their cocoons, bees that have died in the hive and many other things that don't belong in the hive. Do you know what they do when they come across something too big for them to carry out of the hive? They embalm it with a material called "propolis" to prevent it from producing bacteria and harming the health of the other bees in the hive. It is hard to believe, but propolis is an anti-bacterial material, that is, it stops bacteria growing... Do you know where they find this substance, mom? How do these tiny beings know so much about chemistry? That is as far as I have read. Maybe I can tell you how they make this substance later.



Mother: Bees are tiny yet extremely intelligent animals... However, it would be wrong to think that this intelligence belongs to them. There is a Creator Who teaches them everything they do. When I was your age, I also read a book about honeybees which impressed me very much, just like you. If you like, you can keep on reading. I would love to hear more about honeybees whenever you want to share what you've learnt with me.

My mom went out of the room to prepare supper. That question was still on my mind; where do honeybees find the material called "propolis" and where do they learn how to use it? I kept on reading with wonder.

The book also mentioned how honeybees produce propolis. They first collect a material called resin from the sticky buds of some trees with the help of their lower jaws. They then produce propolis by adding their saliva to the resin, and carry it to the hive in the special sacs on their feet.

Honeybees wrap up anything they cannot carry out of the hive in this substance they store in the sacs on their feet. This way, that material cannot house any bacteria and becomes harmless. This is an operation similar to mummifying.

But who taught honeybees to do this? How do they know that a dead creature or waste material could harm the bees in the hive? Even I have only just learned this now. This is not something an insect could know! I was growing more and more curious. Could it be that honeybees were as conscious as human beings?

I could not help but read more. I thought to myself "Now I understand that up until now I knew nothing about bees!" I still had many questions in my mind which I could

not answer. But I was sure that sooner or later I would find the answers.

Honeybees collecting sticky tree buds to produce propolis.







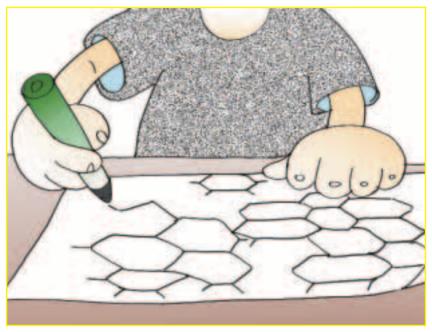
The book also told how bees make honey. I had heard that honeybees make honey, but I had no idea how they built the honeycombs. Even the method they use while building the combs is a great miracle by itself!

The honeycomb cells are in the form of hexagons, sixsided figures. Honeybees start building the comb from the upper side of the hive. Starting from several points, they build two or three separate rows downward. I was completely confused; How could a honeycomb be so regular when it was built beginning from different points? Moreover, there is no sign of the junction points between the honeycomb cells.

I had seen mom knitting many times. She always started from one point. I wondered how the sweaters would look if she started from three separate points... Most probably, they would not look so good! So, honeybees must be animals which make very fine calculations...

I took a sheet of paper and a pencil. Starting from different corners, I started to draw hexagons (six-sided figures). I tried to join these hexagons up in the middle of the paper. I tried to do this without the help of any tools like rulers and set squares and without making any calculations.

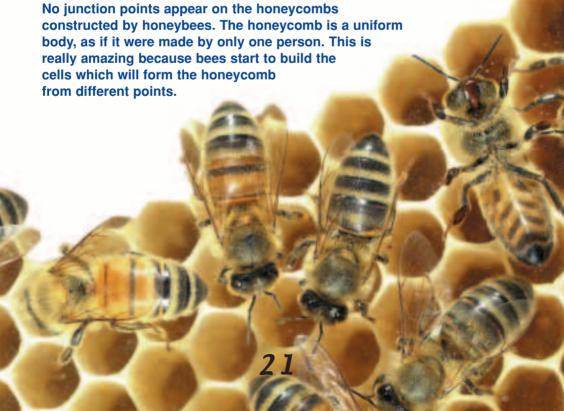
But soon I realised that this was an impossible operation. So how can honeybees do this? How can they make hexagonal cells so perfectly?



Omar tries to draw hexagons as neatly as the honeybees. But without the help of certain tools like rulers and set squares, he is not as successful as the bees. You can also try this for yourself.







Another point which drew my attention is that each bee that later joins the construction of the honeycomb immediately understands the stage things are at and takes charge of the job. As bees continue building cells from different corners, a totally different bee joining the team starts building from an entirely different angle. While such a process would normally cause great disorder, the bees build up a perfect structure.

I also read the section about bees' technique of making honey. I was very surprised and excited to read about this extraordinary process. The book said that the essence of honey is the nectar that bees collect from flowers and fruit buds. After collecting this nectar from flowers, bees turn it into honey.

There was one more important subject in the book: it takes a lot of hard work to produce honey. For instance, just to collect half a kilogram of nectar, 900 bees have to work for a full day. Other figures in the book were even more surprising: to produce 450 grams of pure honey, 17











Bees collect the essence of honey from flowers and fruit buds.





thousand bees have to visit IO million flowers. This is really tough work for them. Despite this, however, bees work very hard and produce much more honey than they need. Moreover, they do not use up much of the honey themselves, but offer it to us, human beings.

This was so puzzling. With their tiny bodies only a couple of centimetres long, bees were performing awesome tasks. What was the source of this consciousness, skill and power? How did they come to possess wisdom, consciousness and know so much about chemistry and mathematics? Why do they work so hard to produce honey?

I took my book and went to my dad. I told him everything I had learned, and asked him how bees could accomplish all these things. Smiling, dad patted my head and said:

"You are right. We see great wisdom and art in the lives of bees. But are they only in bees? Actually, there is perfect order in all animals and what is more, in every part of the universe! But first let me read you a verse from the Qur'an about bees to answer your questions. Listen carefully!"

Your Lord inspired the bees: Make hives in the mountains and in the trees and in men's habitations.

Then feed on all the fruits and walk in the ways of your Lord. There comes forth from within it a syrup of many colours, in which there is healing for men; most surely there is a sign in this for a people who reflect. (Surat an-Nahl: 68-69)





Omar: Now I get it better, dad. God 'inspires' the bees to behave in this amazing way. God is very compassionate to us and He inspires the bees to produce honey which contains healing properties for us. It is very exciting to learn about God's favours.

Father: If you examine ants or mosquitoes, camels, birds, fish, flowers, trees, stars, oceans, in short, anything on the Earth, you will feel the same wonder in the face of the perfection you see in them. All these show that every part of the universe is ruled by a great art. This is the artistry of God, Who created you and me and your mother, honeybees, parrots, rabbits, squirrels, planets, the space, the sun, in other words everything in the universe. God is the Lord of everything.

Everything takes place by His permission and by His Will. He is the Creator of the honeybees. Everything they do is with His permission. The wisdom we see in these animals is a reflection of God's endless wisdom. If you look at everything around you from this point of view, you will immediately notice the miracles you are surrounded by!"

My father was right. There is no doubt that the wisdom we observe in everything surrounding us has an all-powerful Lord. I thought to myself, "God is the All-Powerful, the All-Wise, the Creator of everything." I had finally found all the answers to the questions that had been bothering me. Honeybees do not own the wisdom they display! It is impossible for them to possess such wisdom! They act by the inspiration of God, their Creator, and thus display a superior wisdom that astonishes us.



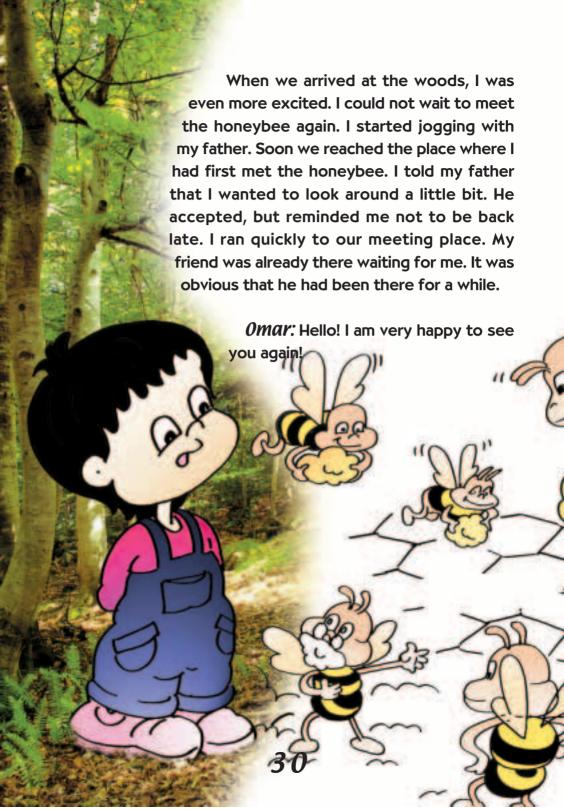
I spent the entire week telling everyone I met, my mom, dad, my cousins and friends, about honeybees. At the weekend, I asked my father to go to the woods again.

Omar: Daddy, we will go jogging this weekend, won't we?

The Father: As a matter of fact, I did not plan to go this weekend, but if you want, why not?

I was very pleased and excited to hear this. I was wondering if I would see the honeybee that had talked to me again.





The Honeybee: So am I! Welcome! It is nice to see you too. I will keep my promise and show you the honeycomb today.

Omar: Great! You know what? I spent the whole week thinking about your amazing honeycombs? I can't wait to see them!

From a tree only a few steps away, an incredible buzzing could be heard. I would never have dared to go there if I had not had my friend with me. The little honeybee promised that nothing would happen to me, and I trusted him.

When we approached the tree trunk, I remembered that there was great order inside, despite the buzzing noise I was hearing. Honeybees are one of the most hard-working animals in the universe; they work without a moment's rest and produce the delicious honey that has so many uses for man. My little friend showed me the honeycomb cells; they were so regularly made that one could not help wondering how these tiny creatures could make such a perfect construction.

The cells I saw were made up of perfectly neat hexagons, or six-sided figures. In our maths class last week, I had asked my teacher some questions about hexagons. She had then briefly explained hexagons to me, but there were still some questions in my mind.

I asked my friend about the guidelines for

constructing a hexagon honeycomb cell. He told me that the senior honeybee, who was the eldest bee, could give me the best answer. He then called over the senior bee, who answered my question:

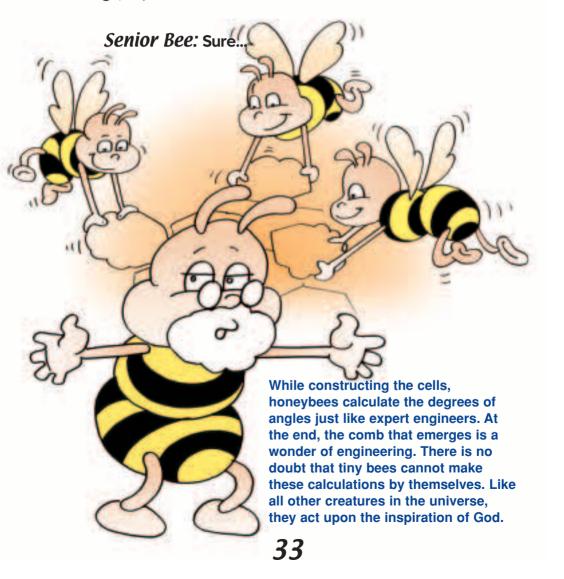
Senior Bee: When we make a hexagonal cell, we pay special attention to the inside angles of the comb cells. We have to make each one I20 degrees. Besides, the tilt of the cells to the ground is also very important. If we take care of the other point and miss this one, then the cell will not be the proper shape and all the honey we store in the comb will spill out on to the ground.

Omar: To tell you the truth, that is quite difficult for me to understand, as I am not very familiar with the subject. How can honeybees make these calculations without any errors? How can you set each angle exactly at I20 degrees? And then you do not use any tools when building these combs. That reminds me of all the pages full of queer geometrical shapes I drew while trying to draw proper hexagons... I am even more amazed by you now!

Senior Bee: Don't be amazed at us; we do not do these things by ourselves! These are innate skills.

In other words, we are born with these skills. We do not receive any training or anything like that.

Omar: You show great wisdom! Everyone needs to learn the things you are doing. I would like to ask you a few things, if you will let me.



Omar: Why do you make your combs in a hexagonal shape?

Senior Bee: I see. You want to know why we don't make them squares, triangles, pentagons or octagons, but hexagons... If we had made the honeycomb in another shape, there would be areas left unused in between the cells; in this way, we would be able to store less honey and would have to waste wax to patch the gaps. Actually, we could also store honey in squares or triangles but the hexagon is the shape with the shortest circumference. Despite having the same volume as other forms, we use less wax to make hexagonal cells than we would use to make triangles or squares. In other words, we can store the maximum amount of honey in hexagonal combs and use the minimum amount of wax.

I couldn't believe my ears! I was taking engineering lessons from a tiny, lovely honeybee... There were many other things I wanted to ask and learn. But it was getting late, so we left the senior honeybee and started to walk towards my father.



Omar: I have learned a lot from you and the other honeybees. Now I realise that before, I was completely unaware of the beauties which existed before my eyes! You have taught me that there is perfect order in the universe.

From now on, I hope I will be able to notice all this perfection. Thank you very much!

The Honeybee: Not at all, my little friend... Never forget that none of this perfection belongs to us! We only carry out what we are taught. Bye bye!

As I left the honeybee, I heard my father calling my name.







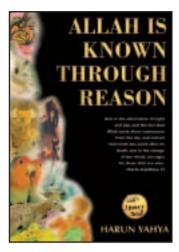
Honeybees collecting nectar from flowers to produce honey.

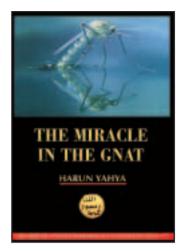
It was quite late. I hurried back to meet my father, but my mind was still set on my little friend! Just as I was getting into the car, I saw a butterfly. It had great colour harmony and symmetry in its wings. I decided to go to the school library the next day to do research on butterflies.

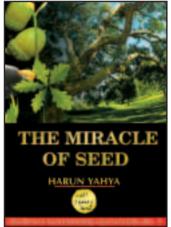
One could never count all the beauties created by God. I realised that there was much more to learn...

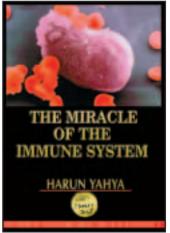


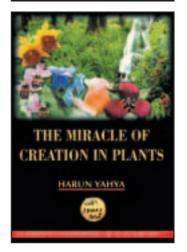
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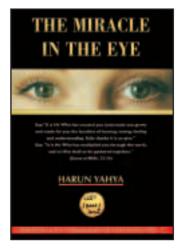


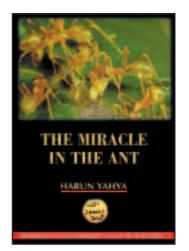


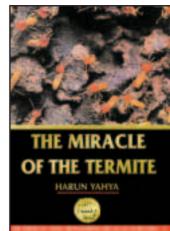


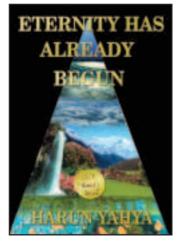


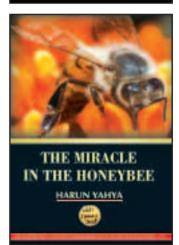


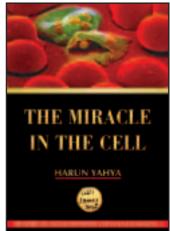


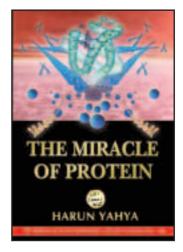


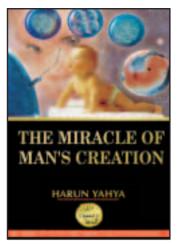


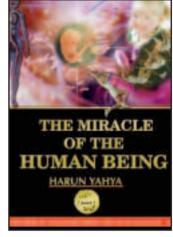


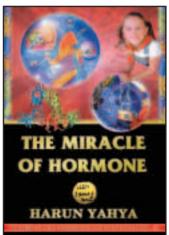


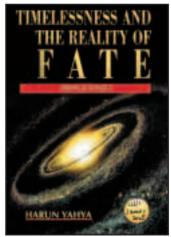


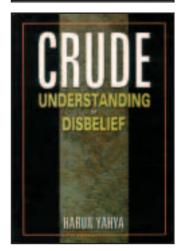


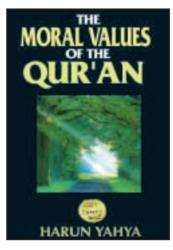


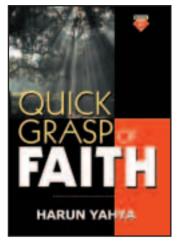


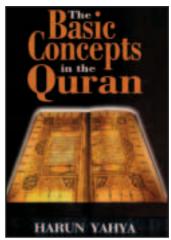


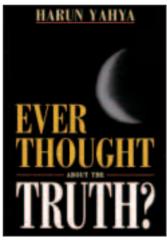


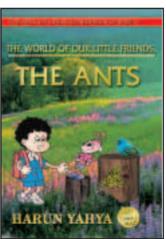












They said 'Glory be to You!

We have no knowledge except what You have taught us.
You are the All-Knowing, the All-Wise.'

(Surat al-Baqarah: 32)