

Updated Edition

Butterfly SCIENCE 2



EAST

MONTESSORI & PRIMARY
CURRICULUM

کتابخانه و برنامه درسی

مطالعات و تحقیقات

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SCIENCE 2

I am going to explore the magical world of Science.

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My name is _____

and I am in class _____.



Assalam o Alaikum,
Welcome to the world of science!



You are about to find out, how things around us work. Interesting readings with big **Colourful Pictures** will help you to understand scientific ideas easily. Together, we will cover all areas of science, such as:



rocks



technology



our body



plants



animals



seasons



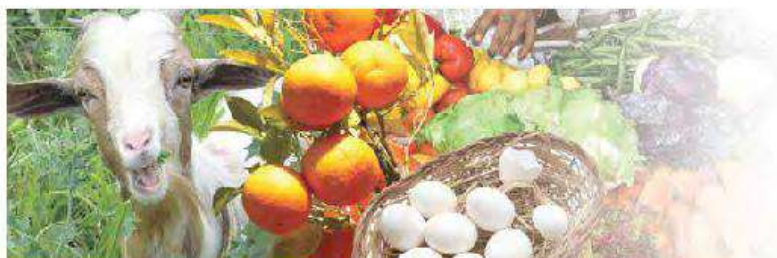
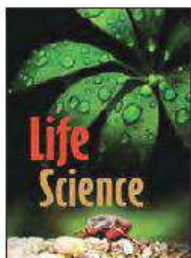
stars



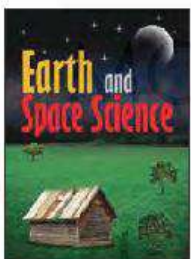
After learning and **understanding** an idea, we will **practice**, **explore** and do a **project** around it. This will add fun to learning. Simple scientific activities will help you to act and think like a scientist. Pretty soon, I am sure you will start enjoying science as much as I do. After all, it's about us and Allah's creations. So lets read on!



Contents

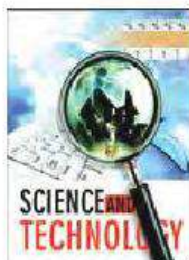


Chapter	Project	Page no
1 My Friend and I	Label the Plant	2-9
2 The First Birthday	Classification of Animals	10-19
3 Are You an Animal?	Creating New Things	20-27

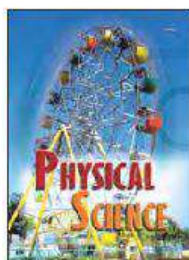


Chapter	Project	Page no
4 Plan Your Picnic	Effects of Rain	29-36

Contents



Chapter	Project	Page no	
5	Photons in the Jar	Electrical Appliances in My Home	38-44
6	Black Gold	Making of Black Gold	45-53



Chapter	Project	Page no	
7	What is Matter?	Melting Race	55-63
8	Force	Make a Rocket	64-72
9	Sound	Make a Telephone	73-82
10	A Firefly	Observing Insects and Animals	83-89

Plan Your Picnic

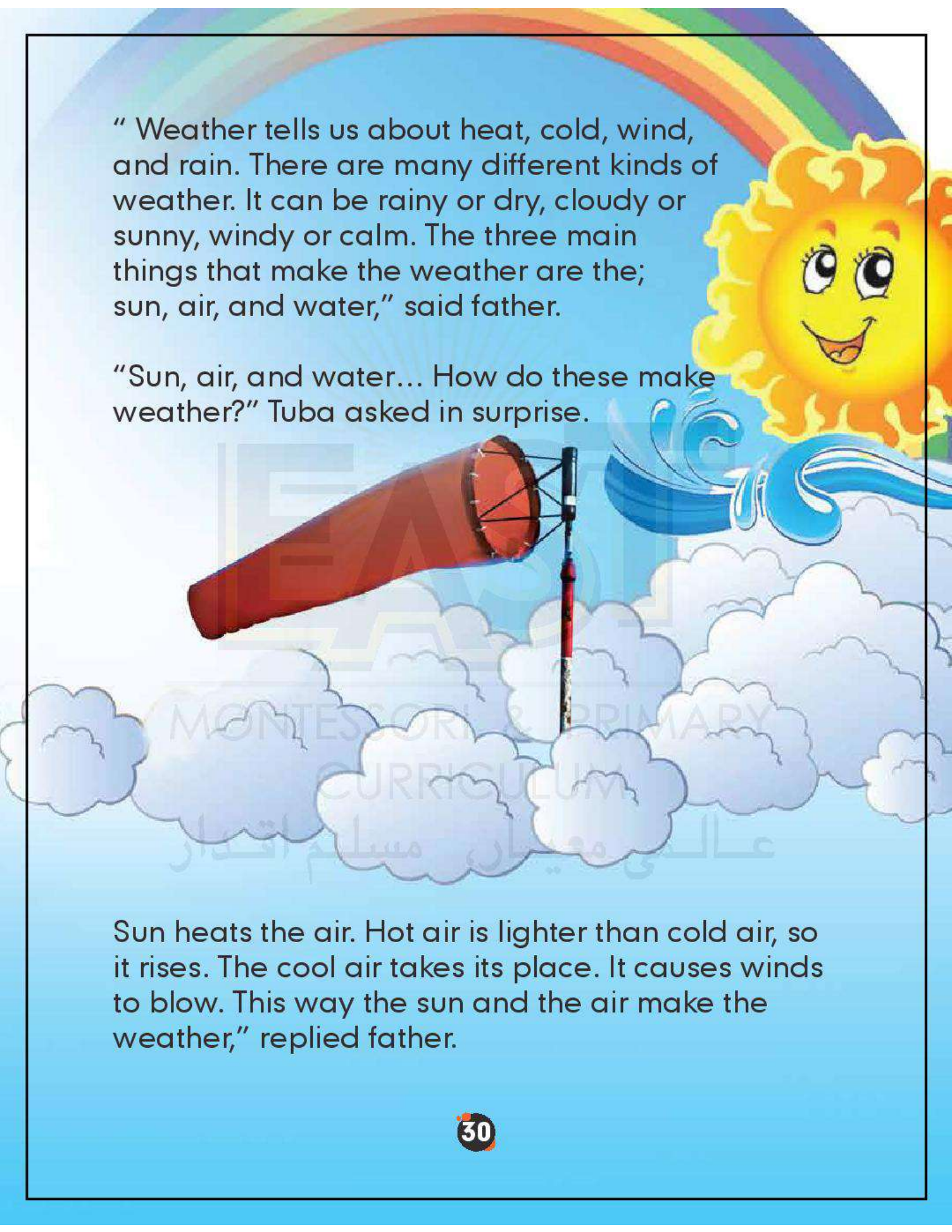
Black clouds rolled the sunshine. Lightning flashed against the dark sky. Soon it began to rain. First lightly. Then heavily.

“Oh! What about our picnic?” asked Tuba.

“We should have listened to the weather forecast before planning our picnic,” mother said.

“Weather forecast! What is weather forecast?” Tuba and Raza asked together.

“First, I must tell you about weather,” said father. Tuba and Raza were listening carefully.



“ Weather tells us about heat, cold, wind, and rain. There are many different kinds of weather. It can be rainy or dry, cloudy or sunny, windy or calm. The three main things that make the weather are the; sun, air, and water,” said father.

“Sun, air, and water... How do these make weather?” Tuba asked in surprise.

Sun heats the air. Hot air is lighter than cold air, so it rises. The cool air takes its place. It causes winds to blow. This way the sun and the air make the weather,” replied father.

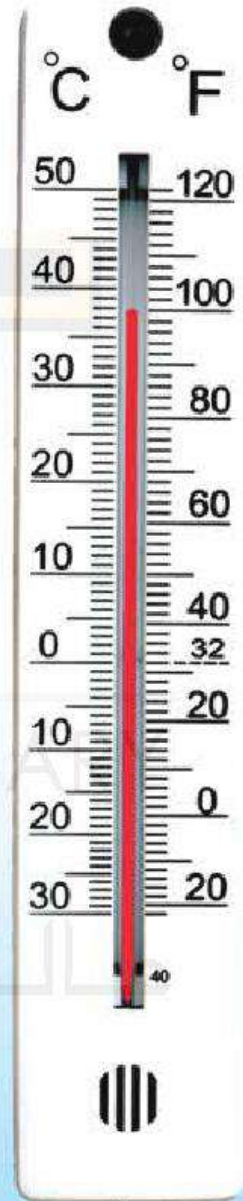
“The wind is moving air and it’s invisible,” said Tuba.

“Very good,” said father.

Tuba asked, “How is water a part of weather?”

“Rain, snow and fog are forms of water and a part of the weather. But rain is the most important,” replied father.

“Weather forecast is a guess about the weather, in advance. We can know the weather forecast from newspapers, T.V. or radio,” mother informed.





Know

- Lots of rainfall in a short time makes streams, lakes, and rivers overflow
- Rainy weather is pleasant, but with lightning and thunder storm it can be dangerous.
- A gentle wind is called a breeze. Much stronger winds are called gales.



Asking Questions

Make questions for these statements, start with given words.

Q1.

- ◆ Cool air takes the place of hot air. (Which)

Q2.

- ◆ Sun heats the air. (What)

Q3.

- ◆ Hot air is lighter than cold air. (Which)

Q4.

- ◆ We know about the weather forecast from T.V. (How)

Teacher's Note

Discuss with children the topic, basic concept, key ideas, the information presented, and the overall structure of the lesson, and then ask them to do the following exercises.

Choose and mark.

The basic concept of this lesson

- Kinds of rivers
- Kinds of trees
- Kinds of weather
- Kinds of animals

In this lesson, we study about

- The weather forecast
- The colours of light
- The electricity
- Kinds of clouds

Choose and complete the information.

A gentle wind is called

_____.

- storm
- breeze
- gales
- thunder

The most important part of weather is _____.

- wind
- rain
- fog
- cold air

Read and mark or .

It is not important to know about the weather in advance.

There are different kinds of weather.

Weather is formed only with the help of the sun.

We can see the wind blowing.

Read and answer.

1. Write three things which make the weather happen?
2. Why is rain important for us?
3. What is a weather forecast?



Look and label.

S for sunny

W for windy

C for cold

R for rain

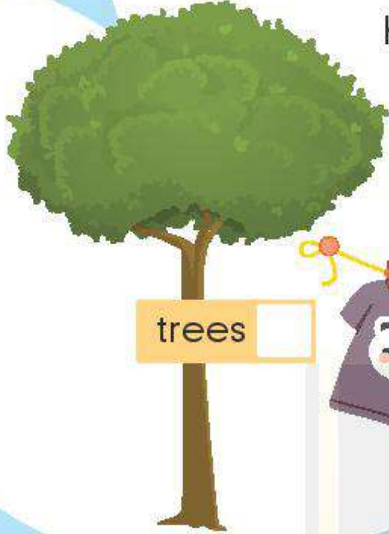




Choose and mark.

Which of these move when the wind blows ?

Key: move Don't move



trees



clothes



plants



billboard



plastic bottles



dust



Think and write.

What do you do on a rainy day? Think of all the things you do when it rains. The web will help you think.



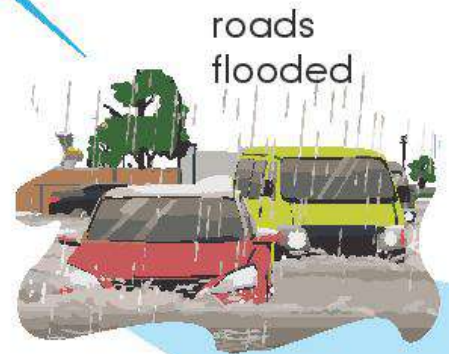
picnics



use umbrella



electricity break down



roads flooded

What other things can you do on a rainy day? List at least five things.

Which is your favorite season and why? Give 2-3 reasons for it.

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عالمی معیار، مسلم اقدار

Skills and Crafts Covered in this Book

No.	Chapters names	Theme	Craft	Science Skill
01	My Friend and I	Needs of living things (Life Science)	Essay	Comparing
02	The First Birthday	Animal Classification (Life Science)	Story	Comparing/Classifying
03	Are You an Animal?	Cure for Animals (Life Science)	Story	Judging/Evaluating
04	Plan Your Picnic	Weather	Story	Cause/Effect
05	Photons in the jar	Uses of other natural resources (Technology)	Story	Exploring different things
06	Black Gold	Protecting Environment (Technology)	Essay	Investigating Objects
07	What is Matter?	Matter (Physical Science)	Essay	Conducting tests
08	Force	Forces (Physical Science)	Story	Practicing
09	Sound	Sound (Physical Science)	Essay (Descriptive)	Judging
10	A Firefly	Light/Energy (Physical Science)	Dialogue	Assessing/Evaluating

Butterfly

'Primer Science Series' welcomes you to the adventurous world of Science. We believe that early encounters with Science will develop and increase children's interest in Science and will open up their minds.

This book covers four broad areas of Science: Life Science, Physical Science, Earth and Space Science & Science and Technology. In every chapter, scientific concepts are depicted and presented very skillfully in the form of illustrious stories to attract children's attention. Every chapter contains co-related questions and exciting activities which help the students understand, practice, explore and discover for themselves. It satisfies children's instinct of curiosity and heightens their thinking and observing faculties while broadening their imagination.

To make the learning of Science easy, interesting and relevant to the student's lives, each chapter is followed by a project. Some of these projects require effective use of the internet, which further enhances their abilities to organize and experimenting with data, following procedures and using tools.

For obtaining the best results from a research work of this calibre, you can get training, cost-free, at any one of the eight EAST Training Centers across the country or you may visit our website: <https://east.education/>

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