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Science

We observe, experiment and discover

Main Summary

Primary 4

Term 1

Free Sample



- Nature in Our Surroundings
- How Insects and Plants Grow
- Properties of Light and Sound
- Forces and Soil in Egypt

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Unit 1

Nature in Our Surroundings

- In this unit I look for living organisms and find out where they live.
- I learn how to observe with a magnifying glass and how to group living organisms.
- I discover how living organisms adapt to the desert.



1 Let's Find Living Organisms

2 How to Observe?

3 Colors and Shapes of Living Organisms

4 Different Places, Different Living Organisms

5 Desert Living Organisms

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Lesson 1

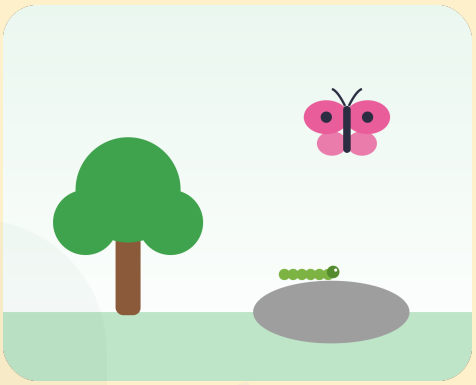
Let's Find Living Organisms

Book: p. 6-7

Contents

Today's goal

Tell living organisms from non-living things, and find out where living organisms live.



Lesson ideas

1. **Living organisms**: people, animals and plants; they **feed, breathe and grow**.
2. **Non-living things**: such as rocks, water and air; they do not feed or grow.
3. Many living organisms live **near us**, such as in the schoolyard and the garden.
4. Near **grass and trees**: there is food, and it is easy to hide.
5. Under **stones** and in the shade of rocks: places that are **damp and cool**, away from the sun.
6. Even in the hot **desert**, living organisms live in the shade of rocks or under the ground.

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Lesson 1

Let's Find Living Organisms

Book: p. 6-7

New words

Living organism Something that feeds, breathes and grows.

Non-living thing Something that does not feed or grow, like a rock.

Damp A little wet.

Hiding Keeping out of sight of enemies.

Remember

Living organisms feed, breathe and grow, and they live where they find food, water and safety.

In my life

When I lift a stone in the garden, I see small organisms living under it, so I put it back gently.

Family activity

Walk with your family in a garden and count the living organisms you see and where they live.

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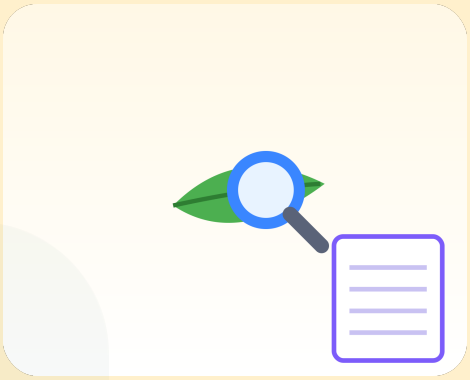
Lesson 2

How to Observe?

Book: p. 8-11

Today's goal

Use a magnifying glass correctly, and write my observations on a record card.



Lesson ideas

1. When we look at a living organism, we pay attention to its **shape, color and size**.
2. A **magnifying glass** shows small details, such as an insect's hairs and a leaf's veins.
3. If the object **moves**: hold the glass close to your eye and move the object forward and backward.
4. If the object **does not move**: move your face with the glass until the picture is clear.
5. Safety: **never look at the Sun** through a magnifying glass.
6. An **observation record card** has: a title, the date and your name, a sketch with describing sentences, and what you learned.

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Lesson 2

How to Observe?

Book: p. 8-11

New words

Magnifying glass A tool that makes things look bigger than they are.

Observation Looking carefully and with attention.

Sketch A drawing with clear lines of what we observe.

Describing sentences Sentences about place, size, shape and color.

Remember

I observe shape, color and size, and I never look at the Sun through a magnifying glass.

In my life

When I check a tree leaf with a magnifying glass, I see its veins clearly and draw them in my notebook.

Family activity

Make an observation record card with your family about a plant at home.

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Lesson 3

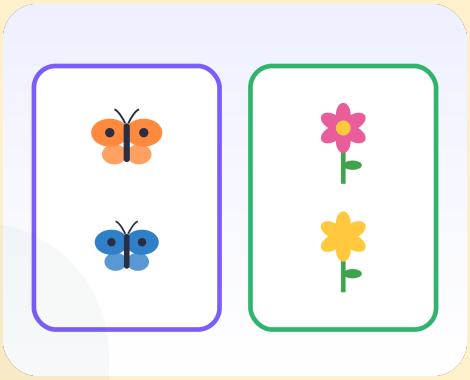
Colors and Shapes of Living Organisms

Book: p. 12-15

Contents

Today's goal

Group living organisms by their features, such as color, shape and size.



Lesson ideas

1. We can **group** living organisms by observing their features, such as their colors and shapes.
2. Look for **similarities**: they have legs, they have wings, their colors are alike.
3. Look for **differences**: the shape is different, the size is different.
4. **Classification**: putting living organisms with similar features into groups.
5. We can group by **color** (brown, green), by **shape** (6 legs, no legs) or by **size**.
6. Some living organisms of Egypt: the hoopoe, the cattle egret, the cobra, the palm tree, papyrus and the lotus flower.

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Lesson 3

Colors and Shapes of Living Organisms

Book: p. 12-15

New words

Classification Putting similar things into groups.

Similarity Sharing the same feature.

Difference Not sharing the same feature.

Features What makes an organism special: color, shape and size.

Remember

Classification: we put organisms with similar features in the same group.

In my life

When I sort my toys or pens by color or shape, I am classifying.

Family activity

Collect different tree leaves with your family and group them by shape and size.

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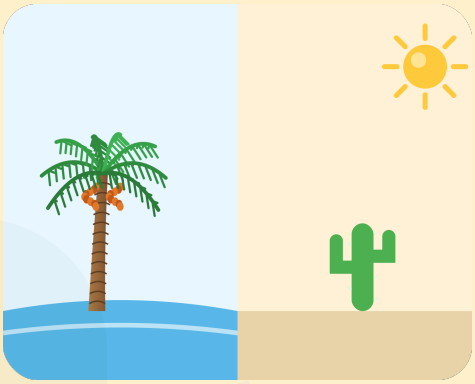
Lesson 4

Different Places, Different Living Organisms

Book: p. 16-19

Today's goal

Know the meaning of habitat and adaptation, and compare the banks of the Nile with the desert.



Lesson ideas

1. A **habitat** is the place where a living organism lives.
2. **Adaptation**: a change in body parts or behavior that helps an organism survive in its place.
3. **Along the Nile**: a lot of water and damp soil; plants: orange trees and lotus; animals: frogs and bees.
4. **The desert**: very little water and dry soil; plants: acacia and colocynth; animals: the fennec fox and the jerboa.
5. Desert plants such as **acacia** have small leaves to lose less water, and long, deep roots.
6. A **frog** taken from the Nile to the desert cannot survive, because it is not adapted to it.

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Lesson 4

Different Places, Different Living Organisms

Book: p. 16-19

New words

Habitat The place where a living organism lives.

Adaptation A change that helps an organism survive.

Riverbank The land on both sides of a river.

Deep roots Roots that go far under the ground to reach water.

Remember

Every living organism has a habitat, and it needs the right adaptation to live there.

In my life

The cactus on my balcony needs little water, because it is adapted to dry places.

Family activity

Grow a cactus and a mint plant at home and compare how much water each one needs.

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Free Sample

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