Science Workbook — Grade 4

Science Workbook for Grade 4 — Complete Course Practice

Cuaderno de Ciencias — 4.º grado

Cuaderno de Ciencias para 4.º grado — Práctica completa del curso

Elementary Series / Serie de Primaria

Elementary Courses for Florida & Puerto Rico / Cursos de primaria de Florida y Puerto Rico

White Ink-Saver Edition / Edición imprimible para ahorro de tinta

MKLDesignsShop

How to Use This Workbook

(En español: Cómo usar este cuaderno)

Welcome to the **Science Workbook — Grade 4** by MKLDesignsShop! This workbook is designed for 4th-grade students in Florida and Puerto Rico to explore core scientific concepts in English with supportive Spanish subtitles and glossaries.

Here is what you will find inside this workbook:

- **6 Core Units:** Comprehensive coverage of ecosystems, Florida's wildlife, Earth resources, space science, matter, and energy.
- **Mini-Lessons with Functional Visual Diagrams:** Quick, easy-to-read explanations accompanied by diagrams, charts, and tables to make concepts clear.
- **2 Worked Examples Per Unit:** Step-by-step problem-solving models with complete explanations.
- **Guided Practice (4 items) & Independent Practice (6 items):** Open-ended questions to build confidence and mastery.
- **Unit Mini-Quizzes:** 4 multiple-choice questions per unit to test understanding.
- **Final Exam:** A 20-question comprehensive assessment at the end of the course.
- **Bilingual Glossary:** A 30-word reference list at the back of the book.
- **Complete Answer Key:** Fully explained answers for all practice items and quizzes.

Meet **Milo the Manatee**, your friendly guide throughout this journey! Milo will appear in examples and tips to cheer you on.

Note: This book is formatted in an ink-saving edition design for clean printing in classrooms and at home.

Course Map

(En español: Mapa del curso)

- **Unit 1:** Ecosystems and Food Chains / Los ecosistemas y las cadenas alimentarias
- **Unit 2:** Florida's Living Things / Los seres vivos de Florida
- **Unit 3:** Rocks, Soil, and Resources / Rocas, suelo y recursos
- **Unit 4:** Earth, Moon, and Sun / La Tierra, la Luna y el Sol

- **Unit 5:** Properties of Matter / Propiedades de la materia
- **Unit 6:** Forms of Energy / Formas de energía

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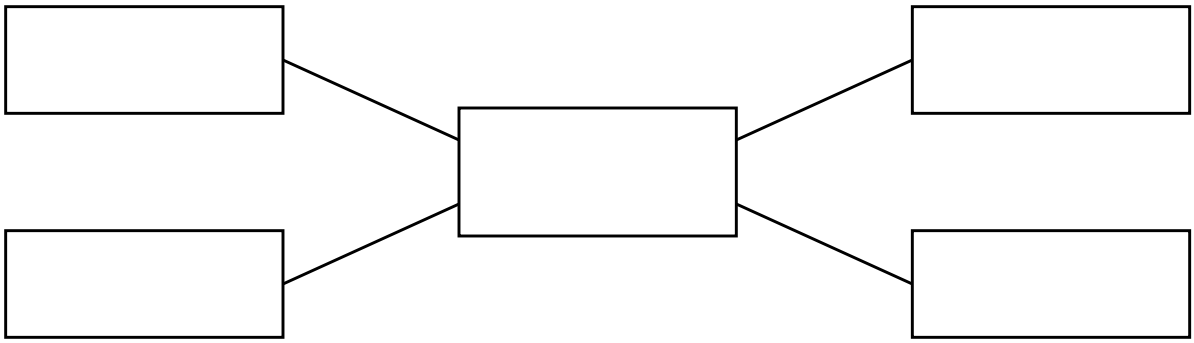
Starter Mini-Lesson

(En español: Mini-lección de arranque)



Hi friends! I am Milo the manatee, and I love learning about the world! Science is a way of thinking and learning about nature. Scientists follow simple steps to answer big questions:

1. **Observe:** Pay close attention to things around you using your senses.
2. **Form a Hypothesis:** Make an educated guess or testable idea about what will happen.
3. **Experiment & Test:** Try out an idea and record what happens step by step.
4. **Draw Conclusions:** Write down what you learned from your test.

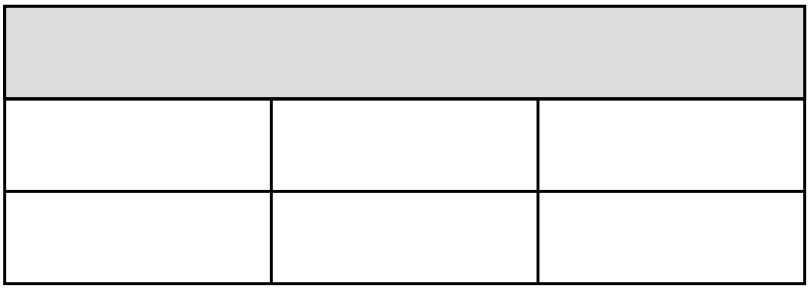
Starter activity:

Look around your room or outside a window. Write down two observations (things you see, hear, or feel) and one question about how one of those things works.

UNIT 1: Ecosystems and Food Chains

(En español: Unidad 1: Los ecosistemas y las cadenas alimentarias)

Mini-Lesson



1. What is an Ecosystem?

An ecosystem brings together living things (plants and animals) and non-living things (water, sunlight, air, and soil) interacting in one environment.

2. Producers, Consumers, and Decomposers

- **Producers:** Living things that make their own food using energy from the Sun. Plants are producers.
- **Consumers:** Living things that eat other living things for energy. Herbivores eat plants, while carnivores eat other animals.
- **Decomposers:** Living things, like fungi and bacteria, that break down dead plants and animals and return nutrients to the soil.

3. How Energy Moves in a Food Chain

Energy flows in one direction through a food chain, starting from the Sun.

- **Declared Food Chain Example:** Sun arrow Turtle grass (Producer) arrow Sea turtle (Consumer/Herbivore) arrow Shark (Consumer/Carnivore).

Milo says: "Remember, the arrow in a food chain shows the direction energy flows!"

Worked Examples

Example 1

Question: In the food chain: Sun arrow Turtle grass arrow Sea turtle arrow Shark, which organism is the producer and why?