

# *The World Around Me*

## *Basic Science Principles & Topics*



Winter Promise

**Ebook Version Printing Instructions:** If you'd like to print this resource in its entirety, print the pages single-sided in color or black and white, and hole-punch or bind on the left side.

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# The World Around Me

## Science for K to 2nd Grade



Welcome to Your Science Program!

Each week your student will work through several resources. These resources are designed to be done orally together with the parent. Even the written work in their Science Notebook should be done with parental guidance and encouragement. This notebook is a necessary part of reinforcement of what students are learning, and a notebook should be purchased prior to beginning. Suggestions for the notebook are in the “Week 1” notes.

Each week there are suggested activities, some of which should be completed. There is a lot of content in the activities, so we encourage you to try to do a few of them each week. Many of them are very simple to complete and require limited supplies. Any needed supplies beyond common items such as art supplies or household supplies are listed at the bottom of each week under the activity that calls for it.

This program has been deliberately designed to be light, one whose content is a good complement to the breadth of our themed programs for younger students.

### **Book List:**

The World Around Me: Basic Science Principles Guide  
Usborne Children’s Encyclopedia  
More Fun with Nature  
Water Everywhere  
Science Play  
The Night Sky  
The Story of Inventions  
Energy Makes Things Happen  
Forces Make Things Move



# The World Around Me

## Science for K to 2nd Grade Weekly Overview of Topics

### OBSERVATION SKILLS

- Week 1: Seeing Science All Around!
- Week 2: The World Around You

### PLANT LIFE

- Week 3: Plants Provide for Human Needs
- Week 4: Get to Know New Trees
- Week 5: Plants Know How to Grow
- Week 6: Flowers Grow Wild

### HUMANS & ANIMALS

- Week 7: The Human Body
- Week 8: Animal Mania
- Week 9: Birds in the Air
- Week 10: Amphibians, Reptiles & Insects
- Week 11: The Sea & the Seashore

### WATER

- Week 12: Water in Different Forms
- Week 13: Fresh Water on the Earth
- Week 14: Such a Salty Sea!

### WEATHER

- Week 15: Air is All Around You
- Week 16: Air Power
- Week 17: Sunny & Windy
- Week 18: Rainy & Cloudy

### THE EARTH ITSELF

- Week 19: Dirt & Earthworms
- Week 20: Sand & Fossils
- Week 21: Rocks & Caves

### PHYSICAL SCIENCE

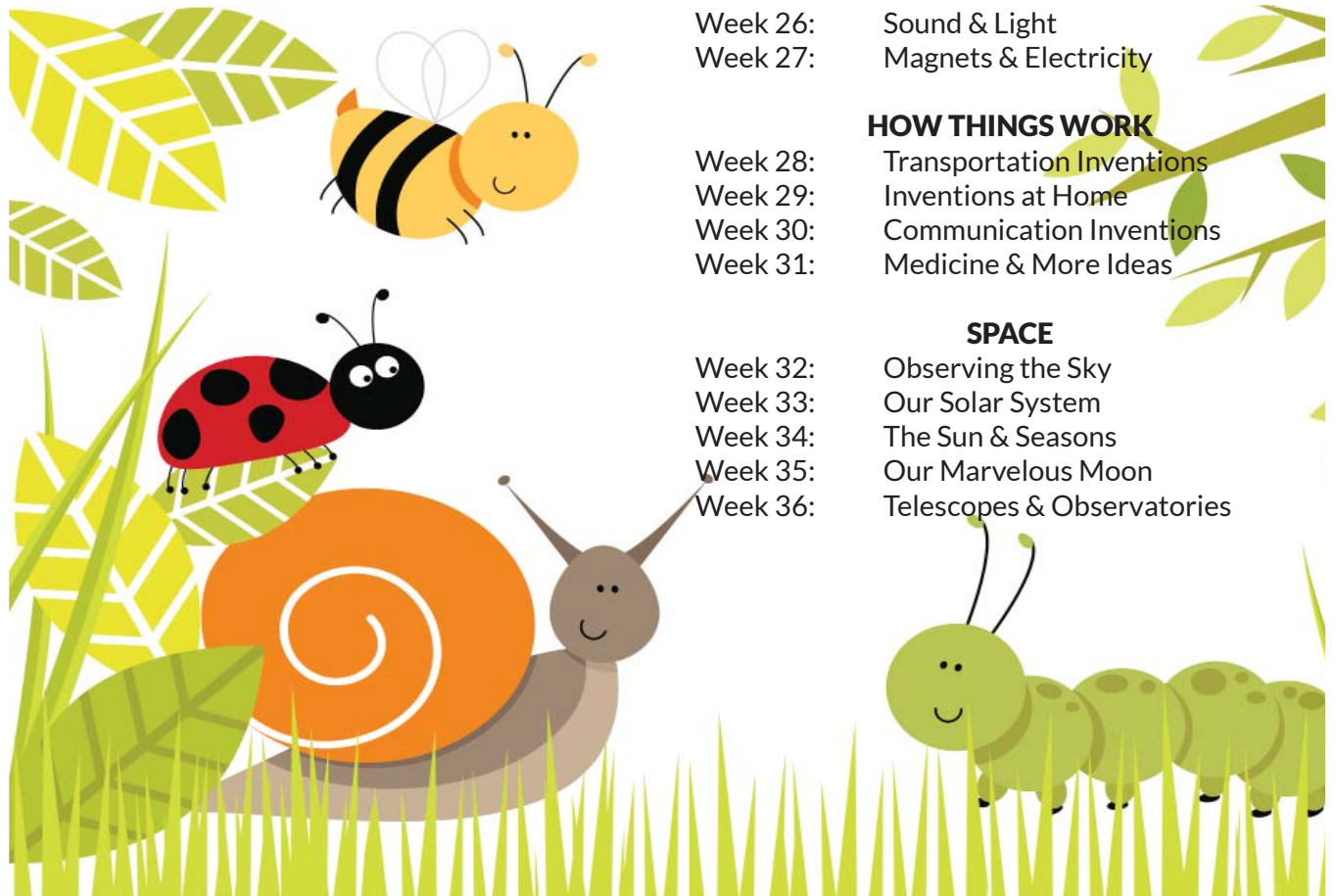
- Week 22: Chemistry in Your Kitchen
- Week 23: Working with Oobleck
- Week 24: Energy and More Energy
- Week 25: Forces and Movement
- Week 26: Sound & Light
- Week 27: Magnets & Electricity

### HOW THINGS WORK

- Week 28: Transportation Inventions
- Week 29: Inventions at Home
- Week 30: Communication Inventions
- Week 31: Medicine & More Ideas

### SPACE

- Week 32: Observing the Sky
- Week 33: Our Solar System
- Week 34: The Sun & Seasons
- Week 35: Our Marvelous Moon
- Week 36: Telescopes & Observatories



# The World Around Me

## Seeing Science All Around!



RESOURCES	DAY 1	DAY 2	DAY 3	DAY 4
<b>ORAL DISCUSSION</b>				
<b>SCIENCE RESOURCES</b>				
<i>Usborne Children's Encyclopedia</i>	What is Science? Pages 182-185		People Around the World Pages 150-157	Places Around the World Pages 26-33
<i>Science Play</i>	For Kid Scientists Pages 7-10			
<i>Science Notebook</i>		Make a Science Notebook		
<b>CHOOSE AMONG THESE PROJECTS &amp; ACTIVITIES</b>				
<i>Science Play</i>		★ EASY ★ What's the Difference? See note below.		★ EASY ★ Observation Assignment #1 See note below.
<i>Other Ideas</i> See notes below.	★ EASY ★ Senses Scavenger Hunt			
<b>Notes</b>				

### ASSIGNMENT

#### Make a Science Notebook

Plan to purchase an art notebook with plain paper that is sturdy and will last well. Your student will be recording some of his experiences this year into this notebook. Have him decorate and personalize the front of the notebook, if he or she would like.

### ACTIVITIES

#### What's the Difference?

This will allow students to practice their powers of observation. Collect some small objects from around the house. Arrange them on a cookie sheet or pan. Set a timer for one minute. Allow the student to look at the objects in the pan for one minute. Then, take the pan away and have the student write down as many things as he can remember. He should write down as much detail as he can remember about the objects, such as color, size, etc. Then, show him the pan and see how many things he had right and which things he missed.

#### Senses Scavenger Hunt

Your student should try to find the items listed on Science Worksheet #1.

#### Observation Assignment #1

Take your Science notebook outside and draw something interesting you see. For each of the next observation assignments you will draw something you observe. Don't be content with just drawing a big picture. Choose something small, and draw everything you see, in detail. You might want to draw a flower, a bug on a bush, a small plant, a leaf, or a small patch of ground. Be sure to look closely, and show everything you see. Add labels to show what is in your picture.

## Supplies Needed

Senses Scavenger Hunt  
Science Worksheet #1

Science Notebook  
Notebook

What's the Difference?

Small objects that can be moved easily  
Watch or kitchen timer

# The World Around Me

## The World Around You



RESOURCES	DAY 1	DAY 2	DAY 3	DAY 4
<b>ORAL DISCUSSION</b>				
<b>SCIENCE RESOURCES</b>				
<i>Usborne Children's Encyclopedia</i>	How People Live & Work Pages 158-162	People Living Together Pages 166-171	People and Their Culture Pages 172-177	
<i>Science Play</i>				Talk through with students the Scientific Method as presented on Page 10.
<i>Science Notebook</i>		Record Your World See notes below.		Record "Guess, Test & Find Out" from Science Play.
<b>CHOOSE AMONG THESE PROJECTS &amp; ACTIVITIES</b>				
<i>Science Play</i>	★ EASY ★ Measure & Measure Again See notes below.		★ EASY ★ Observation Assignment #2 See note below.	★ EASY ★ Scientific Method Practice See notes below.
<i>Other Ideas</i> <i>See notes below.</i>		★ EASY ★ Bake a Treat		
<b>Notes</b>				

### ASSIGNMENT

#### Record Your World

In your Science notebook, record what you observe in your bedroom about:

- the sunlight from the window
- the shadows cast by different objects
- the pattern of your blanket when you look at it closely

### ACTIVITIES

#### Measure & Measure Again

Your student should complete Science Worksheet #2.

#### Observation Assignment #2

Take your Science notebook outside and draw something interesting you see. For each of these observation assignments you will draw something you observe. Draw something different from what you worked on before. Don't be content with just drawing a big picture. Choose something small, and draw everything you see, in detail. You might want to draw a flower, a bug on a bush, a small plant, a leaf, or a small patch of ground. Be sure to look closely, and show everything you see. Add labels to show what is in your picture.

#### Scientific Method Practice

Go through the Scientific Method using a new question. You can use one of your own, or you could use the one below.

#### HYPOTHESIS or Question -

Does my dog know his/her name?

#### PROCEDURE or Test -

First, say different words when you are near your dog. Then, say the dog's name.

#### DATA or Results -

Write down your dog's response when you say different words. Then, write down his response when you say his name.

#### CONCLUSION -

Does your dog know its name? What do the results show?

#### Bake a Treat

Bake a treat together with a parent, and help to measure the ingredients. You will find it is very important to measure correctly. Baking is a great way to learn liquid and dry volume measurement! Supplies depend upon the treat you pick to make together.