

Week 33: Science Fair: Asking Questions

Standards: K-2-ETS1-1, 2-PS1-1, 2-LS2-1

Part A: What Makes a Good Science Question?

A good science question can be **tested** by doing an experiment. Circle the testable questions below:

Question	Testable or Not?
1. What color is the prettiest?	Not testable
2. Do plants grow taller with more sunlight?	Testable!
3. Which type of paper airplane flies the farthest?	Testable!
4. Why is the sky blue?	Not easily testable in 2nd grade
5. Does warm water dissolve sugar faster than cold water?	Testable!
6. What is the best animal?	Not testable — it's an opinion

Part B: Write Your Own Science Question

Think about something you wonder about. Write a testable science question:

My science question: _____

What I think will happen (my hypothesis):

What materials will I need?

1. _____

2. _____

3. _____

4. _____

Week 33: Planning My Investigation

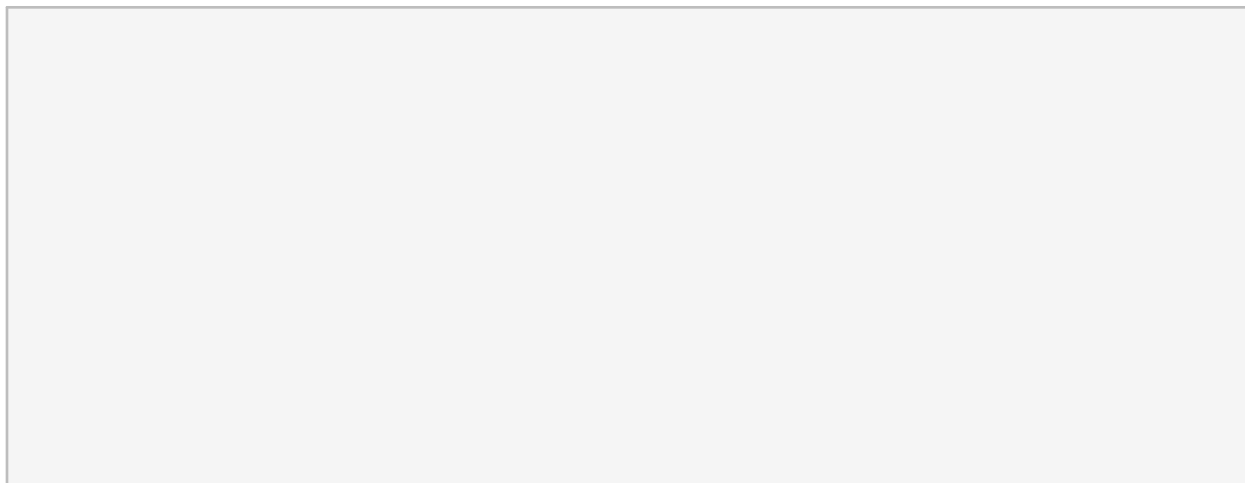
Standards: K-2-ETS1-1, K-2-ETS1-2

Part C: My Experiment Plan

Step	What I Will Do
1. Question	Write it here: _____
2. Hypothesis	I think _____ because _____
3. Materials	I will need: _____
4. Procedure	First, _____ Next, _____ Then, _____ Last, _____
5. Observe	I will look for: _____
6. Record	I will write down: _____

Part D: Draw Your Experiment Setup

Draw a picture of how your experiment will look:



Week 34: Conducting Experiments

Standards: K-2-ETS1-2, K-2-ETS1-3, 2-PS1-2

Part A: Data Collection Table

Record your observations and measurements during your experiment:

Trial #	What I Did	What Happened	Measurement
1			
2			
3			
4			
5			

Part B: Observation Journal

Write about what you noticed during your experiment:

What I saw: _____

What I heard: _____

What I felt (touch): _____

What surprised me: _____

Part C: Was My Hypothesis Correct?

My hypothesis was: _____

My results showed: _____

My hypothesis was: **CORRECT** / **INCORRECT** (circle one)

Explain why: _____

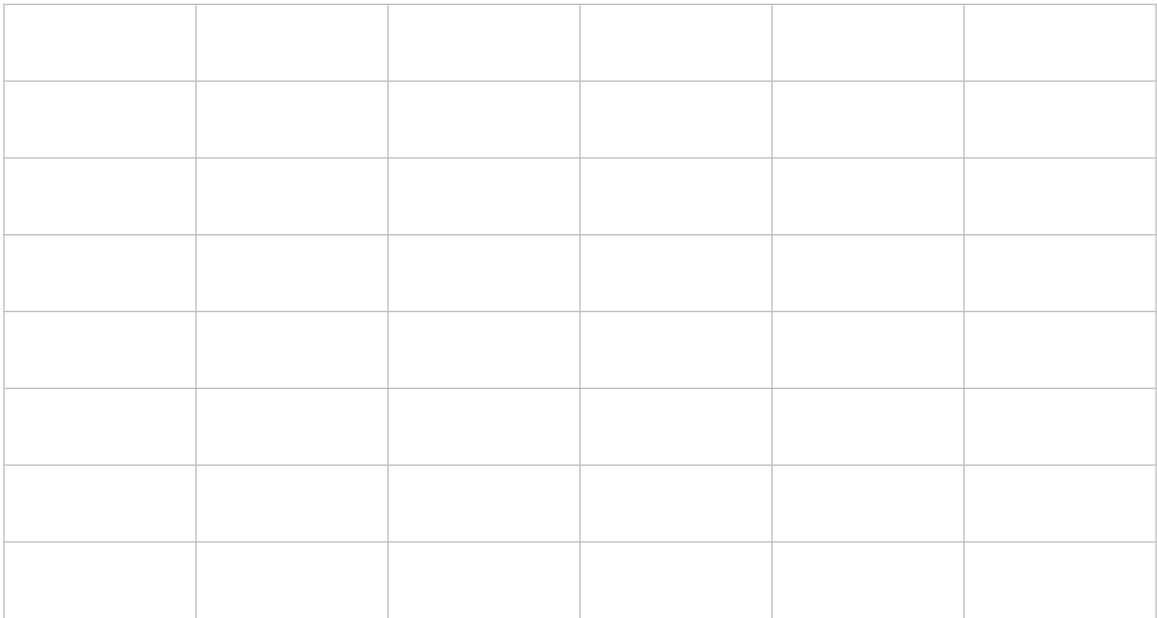
Week 34: Graphing My Results

Standards: 2-MD.D.10, K-2-ETS1-3

Part D: Create a Bar Graph

Use your data to create a bar graph. Label the axes, give it a title, and color the bars.

Title: _____



Label: _____ | _____ | _____ | _____ | _____ | _____

Part E: What Does Your Graph Show?

- 1. Which result was the highest? _____
 - 2. Which result was the lowest? _____
 - 3. What pattern do you notice? _____
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Week 35: Presenting My Science Fair Results

Standards: K-2-ETS1-3, SL.2.1, SL.2.4, SL.2.6

Part A: Science Fair Poster Planner

Plan what goes on each section of your tri-fold poster:

LEFT PANEL	CENTER PANEL	RIGHT PANEL
Question Write your question here:	TITLE (Big and colorful!)	Results Attach your graph or chart
Hypothesis Write what you predicted:	Pictures/Diagrams Draw or attach photos of your experiment	Conclusion What did you learn?
Materials List what you used	Data Table Show your measurements and observations	What I Would Change If you did it again, what would you do differently?
Procedure Number your steps		

Part B: Presentation Practice Script

Practice saying these sentences about your project:

My science question was: _____

I predicted that: _____

To find out, I: _____

My results showed: _____

I learned that: _____

If I did this again, I would: _____

Week 35: Science Fair Peer Review

Standards: SL.2.1, SL.2.2, SL.2.3

Part C: Peer Review Form

Visit a classmate's science fair project and fill out this review:

Category	Rating (color the stars)	Comments
Clear Question	* * * * *	
Good Hypothesis	* * * * *	
Fair Test	* * * * *	
Clear Results	* * * * *	
Neat Poster	* * * * *	
Good Presentation	* * * * *	

Scientist's Name: _____ Reviewer: _____

One thing I liked: _____

One question I have: _____

Part D: Self-Reflection

After presenting, think about how it went:

What went well during my presentation? _____

What was the hardest part? _____

What would I do differently next time? _____

What new question do I have now? _____

Week 36: Year-End Science Celebration

Standards: All Grade 2 NGSS Standards

Part A: My Favorite Science Topics

Rank your top 5 favorite science topics from this year:

Rank	Topic	Why I Liked It
1		
2		
3		
4		
5		

Choose from: Properties of Matter, Plants & Animals, Habitats & Ecosystems, Engineering Design, Earth's Systems, Weather & Water Cycle, Biodiversity, Life Cycles, Science Fair

Part B: Science Vocabulary Challenge

Match each science word to its definition:

Word	Definition
1. Hypothesis	a. A group of living things in one area
2. Erosion	b. An educated guess about what will happen
3. Ecosystem	c. When wind or water moves rock and soil
4. Habitat	d. To look closely and carefully
5. Observe	e. The place where an animal lives
6. Properties	f. The stages an organism goes through
7. Life Cycle	g. Characteristics you can see, feel, or measure
8. Producer	h. A living thing that makes its own food

Answers: 1-b, 2-c, 3-a, 4-e, 5-d, 6-g, 7-f, 8-h

Week 36: Science Portfolio & Awards

Standards: All Grade 2 NGSS Standards

Part C: My Science Portfolio Reflection

Look back at all the science work you did this year. Complete each section:

The most interesting experiment I did was: _____

I learned that matter can: _____

One thing I learned about plants and animals: _____

The engineering challenge I enjoyed most: _____

Something I learned about Earth: _____

A science skill I got better at: _____

Part D: Science Award Certificate

Science Achievement Award

This certifies that

has successfully completed all Second Grade Science units
and demonstrated curiosity, creativity, and scientific thinking!

Date: _____ Teacher: _____