MY SCIENCE JOURNAL

STEP 3: COLLECTING DATA

Name _____

We have learned how to make observations and to ask questions that may help us solve a problem. Next, we collect data to help us answer our questions and to solve problems. Collecting data is the next step in the scientific method
.
Data is a collection of information. We can collect data through observations, asking questions, and taking measurements.

It can include facts, numbers, and measurements. For example, “If I wanted to know how many teeth have been lost in our class, what kind of data do I need to collect?"

VOCABULARY

Data:
A collection of information.

1. What other information or data should we measure about Queen Frivol and her trash to help us answer our questions?

We should measure

_____

_____

_____

SEE IT!

After making observations and asking questions, Reese and Caily like to collect data to help solve problems. Let's explore what they observe, the problem they must solve, and what data they collect to help them be successful!

Observation

2. What do Edie, Caily, and Reese notice about Jennifer the ferret?

Edie, Caily, and Reese notice

Asking Questions & Solving Problems

3. Why is Jennifer the ferret in the sling?

Jennifer the ferret is in a sling because

4. What problem(s) are Caily and Reese trying to solve to help Jennifer?

Caily and Reese are trying to

Collecting Data

5. Edie collects some data with the help of the librarian. What does she collect?

Edie collects _____

_____

6. How long is Jennifer the ferret from nose to tail?

Jennifer the ferret is _____

_____ inches long.

7. How does this data help Caily and Reese build the cart?

This helps _____

_____

8. How many pounds does Jennifer the ferret weigh?

Jennifer the ferret weighs _____

pounds and _____ ounces.

9. How does this data help Caily and Reese build the cart?

This helps _____

BE IT!

Now it is your turn to practice your observation skills, ask questions, discover problems to be solved, and collect data. With an adult, find a different safe space to explore. This could be a room in your home, your backyard, a park, any safe place that interests you.

Observation

You may also use the back of this piece of paper to draw.

8. What do you see?

I see _____

9. What do you hear?

I hear _____

10. What do you smell?

I smell _____

11. Is it safe to touch the things around you? If so, what do they feel like?

The _____ feels like _____

Asking Questions & Solving Problems

I wonder why

Why are there only 4 plants?

I wonder what

What is it made out of?

I wonder who

Who left this here?

12. What do you wonder about your space? This is a great way to form questions.

I wonder when

How long has it been here?

I wonder how

How does it grow?

Collecting Data	How many plants do you see?	How many animals do you see?	How many people do you see?

It is ok if you do not see plants, animals, or people. Not seeing something is just as important as seeing something to scientists.

13. What does this data make you wonder about the space? Does the data help you notice anything new?

I wonder _____

_____

The data _____ helps me notice

_____

_____

14. How could data help you think about your questions more clearly?

Data helps me _____

_____

_____

_____

15. Pick one of your questions. Does any of the data help answer your question? What other data do you think you need to collect to answer that question?

The data _____ helps me answer

_____

I need to collect _____

_____

Once we have gathered data it is important that we communicate or share that data with others. Communication is the final step of the scientific method.

16. How would you share your data with others?

I would _____