During research we are going to study gravity. In order to learn about gravity, we need to think like a scientist. Scientists gather data/information and use that data/information to learn about science. You will learn about gravity and create a project explaining gravity so that a $1^{\text {st }}$ grade student will understand all about gravity.

Answer these questions and give at least one example:

1. What is gravity?
2. What is mass?
3. What is weight?
4. How are mass and weight the same? How are mass and weight different?
5. Does gravity push or pull objects?
6. How are gravity and weight related?
7. Why is gravity important?
8. Is the force of gravity the same for heavy and light objects? Explain

| Question 1 | Definition: |
| :--- | :--- |
|  | Example: |
| Question 2 | Definition: |
|  | Example: |


| Question 3 | Definition: |
| :--- | :--- |
|  | Example: |
| Question 4 | Same: |
| Question 6 |  |


| Question 7 |  |
| :--- | :--- |
|  |  |
|  |  |
| Question 8 |  |
|  |  |
|  |  |

## Gravity Extension Project:

1. Find at least 2 more examples for each question
a. The examples must be simple so that a $1^{\text {st }}$ grader will understand
2. Compare the Earth and Moon- focus on gravity
a. Explain the difference between the gravity on Earth and the gravity on the Moon.
i. What would you weigh on the moon?
ii. What happens when you drop something on the Moon?
b. How does the moon's gravity affect the Earth?
c. How does the Earth's gravity affect the Moon?
