## 3<sup>rd</sup> Grade Research

## Gravity

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<sup>st</sup> 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:
	Different:
Question 5	Push or Pull- Explain:
	Evamples
	Example:
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 1st 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?