## Rubric Tides

Use pages 169-172 in your book.
Use a piece of blank paper to create a project which includes a clear explanation of the phenomenon of tides:

1. Create a model showing the differences in the moon's gravitational force on one side of Earth is stronger than the force on the Earth itself, and the force on the opposite side.
a. Label the locations of high and low tides.
b. Explain why there are two high tides and two low tides each day, using the model you created to support your explanation.
2. Create a model that can be used to explain
a. how the position of the moon and sun affect the tides
b. neap tides and spring tides.
3. Construct an explanation for why the moon has a greater gravitational influence over tides, but the sun has a stronger gravitational influence over Earth.
a. Create a gravity vs. distance graph similar to the one on page 169 to aid your explanation.
