**Tides**

Today in Science class, Mr. Smith taught us about moon geography.

Things I learned:

* There is a 2,000-foot cliff on the moon that goes north-south eighty miles.
* When the moon is new or full, you have higher high tides followed by lower low tides.
* Roughly every 12 hours, the oceans on each side of the globe rise a little and then fall back. These tides are caused by the varying gravitational pull between the spinning Earth and the Moon and the Sun.
* When there are really low tides, they are called neap tides.
* The amount of time between high tide and low tide is approximately six hours and fifteen minutes.
* In the Massachusetts area, the difference in the tides is about 3-5 feet between spring tide and neap tide.
* Spring tide is when the tides are higher than usual.
* The great tides of the Bay of Fundy are due to the funnel shape of the Bay. The gradual tapering and shallowing that constricts the tidal flow into the Bay, causes the waters to rise from an average of one meter found elsewhere to the 16-meter tidal range found at the head of the bay.

