**Blue Moon**

Today in Science class, Mr. Smith told us where the expression “Once in a blue moon” came from.

Things I learned:

* Mr. Smith starts off each class with a moon song.
* When you are on the moon, you can see the earth rise.
* When you can see more than half of a lunar circle, it is called gibbous.
* There are many pictures of a gibbous earth from the moon.
* When you can see less than half of a lunar circle, it is called a crescent.
* There are also pictures of a crescent earth from the moon.
* The moon’s cycle of phases is 29 ½ days long.
* You can never get a blue moon in February, because it is not long enough.
* A blue moon is when there is more than one full moon in a standard month.
* The line between daytime and nighttime is called a terminator.
* A terminator is the line of shadow that separates the lit portion of the surface of the moon (or earth) from the dark. The terminator is the line of sunrise and sunset.
* The terminator always goes right to left.
* If you are in Australia, the terminator looks to go left to right because you are looking at it from the other direction.
* If you are on the Equator, the terminator looks to go top to bottom, because you are in between the left and the right.
* If it is a full moon, it means that the moon is on the exact opposite side of the earth as the sun.
* A.M. stands for apri-meridian.
* P.M. stands for post-meridian.
* When the moon is waxing, it is getting bigger.
* The word waxing comes from German.
* When the moon is waning, it is getting smaller.
* At some time during the month, the moon will be next to every planet.

