SCN 1DI	/SNC 1PI
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## Astronomy Unit Bill Nye the Science Guy The Moon

Answer the following questions in complete sentences. Be sure to add enough detail to completely answer the question.

- 1. How long does it take for the moon to orbit the Earth? How many new moons will you see every month? Why?
- -approx. 1 month/one new moon and one full moon during this period
- 2. What is moon glow?
- -moon glow is light that is reflected from the sun to the Earth
- -moon rocks are very reflective
- 3. How do scientists explain the formation of the moon?
- -scientists believe that a meteorite hit the Earth's surface and a section of the Earth's crust was propelled into its atmosphere
- -the moon remains in the Earth's atmosphere due to the strong force of the Earth's gravitational pull
- 4. What is the difference between a maria and a crater?

Maria: these are flat shiny dry oceans found on the Earth's surface

Crater: an indentation on the moon's surface caused by a meteorite hitting the Moon's surface

- 5. What are tides? How does the moon affect the Earth's tides?
- -tides are the daily rising of the water in the Earth's oceans caused by the gravitational pull of the moon
- -this is a daily event (high and low tides) due to the manner in which the moon revolves around the Earth
- 6. Draw rough sketches to demonstrate the difference between a solar eclipse and a lunar eclipse.
- (i) Solar Eclipse

(ii) Lunar Eclipse

-moon's shadow cast on the Earth

- -Earth's shadow cast on the moon
- 7. What direction does the shadow or the lit part of the moon always travel? Draw a sketch to illustrate your point.
- -always right to left
- 8. How many people have walked on the moon's surface? What was the last spacecraft to land on the moon?
- -16 people/ Apollo 17 was the last journey to the surface of the moon
- 9. What are moonquakes?
- -Vibrations on the moon's surface caused by internal tremors
- 10. What were the famous words said when the Apollo 11 lunar module landed on the surface of the moon? "... the Eagle has landed"

Bonus: What were Neil Armstrong's famous first words when he walked on the moon's surface? "... this is one small step for man and one giant leap for mankind"