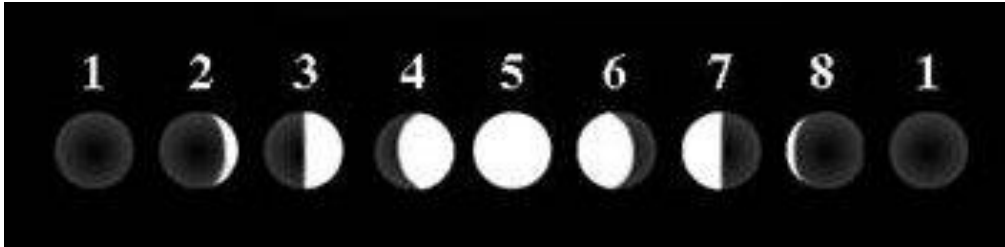


## Phases of the Moon

GLE 0607.6.4 Describe the different stages in the lunar cycle.

GLE 0607.Inq.5 Communicate scientific understanding using descriptions, explanations, and models.

GLE 0607.Inq.3 Synthesize information to determine cause and effect relationships between evidence and explanations.



A class of students surveyed people while they were shopping in the mall. They asked each participant to share their ideas about what causes the phases of the Moon. Here are some of the responses:

- A. The Moon lights up in different parts at different times of the month.
- B. The phases of the Moon change according to the season of the year.
- C. Parts of the Moon reflect light depending on the position of the Earth in relation to the Sun and Moon.
- D. The Earth casts a shadow that causes a monthly pattern in how much of the Moon we can see from Earth.
- E. Different planets cast a shadow on the Moon as they revolve around the Sun.
- F. The shadow of the Sun blocks part of the Moon each night causing a pattern of different Moon phases.
- G. The clouds cover the parts of the Moon that we can't see.
- H. The Moon grows a little bigger each day until it is full and then it gets smaller again. It repeats this cycle every month.

Which response do you agree with and why? Explain your thinking.