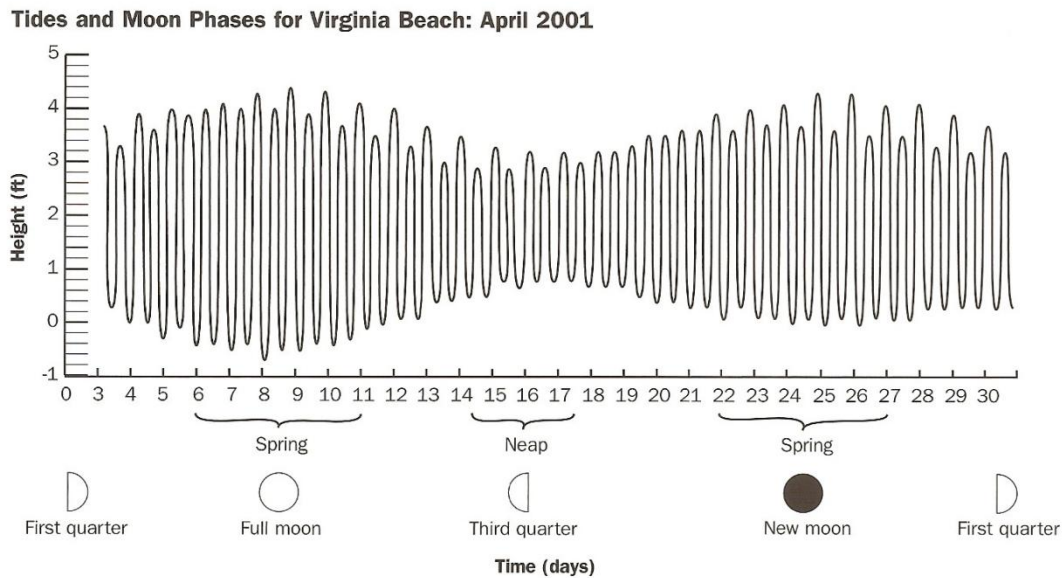


## Tides

GLE 0607.6.5 Produce a model to demonstrate how the moon produces tides.

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

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



The graph above shows the tidal heights in Virginia Beach over a month. The phases of the moon are also labeled. Use the graph to compare the phases of the Moon to the times of high and low tides.

1. During what phase do the lowest high tides occur? What are these tides called?
2. During what phases do the highest high tides occur? What are these tides called?
3. Explain this pattern by drawing diagrams to show how the Sun, Earth, and Moon align during spring and neap tides.