

9J Gravity and space

literacy in science

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Answer all the questions below:

 Click mouse to reveal answer

1) Unscramble the following words:

gryavit

erfoc

nonewt

oomn

2) Make three sentences using the following nine words or phrases:

solar system
force of attraction
moon

nine planets
between objects
orbits Earth

comets and asteroids
mass and distance
natural satellite

3) Match the word or phrase with the right meaning:

Mass



How planets move around the sun in an elliptical path

Gravity



The matter that an object contains

Orbit



The force of attraction between two objects with a mass

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gravity

force

newton

moon

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complete the sentence

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Place the right word or words to complete the sentence:

 Click mouse to reveal answer

never

gravity

phases

force

orbit

value

orbiting

direction

keeps

- a) Newton was the first to use _____ as an explanation to why all objects fall.
- b) In our solar system, there is Earth and eight other planets _____ the sun.
- c) A force always has a magnitude and_____.
- d) Gravity is the _____ of attraction that keeps the moon orbiting the Earth.
- e) There are eight distinct_____ of the moon throughout a lunar month.
- f) Weight is the_____of gravity acting on an object's mass.
- g) Artificial satellites _____ the Earth and are used by the military and weathermen.
- h) The _____ of g on the surface of Jupiter is approximately 26Nkg^{-1} .
- i) Your mass_____changes, wherever you are in the Universe, but your weight does.

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complete the sentence

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