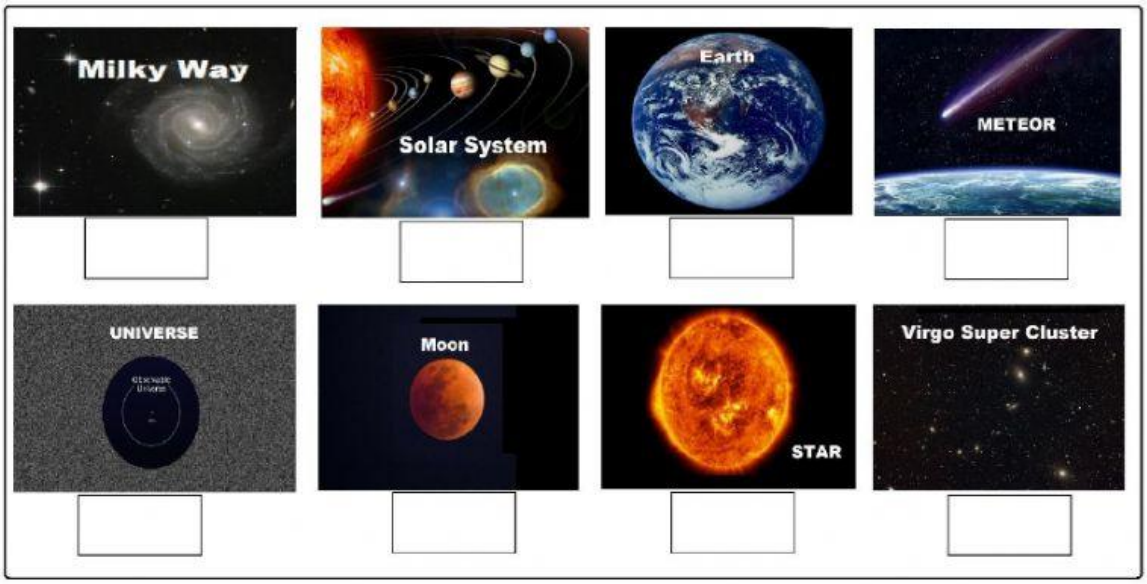
LIVE WORKSHEET

Space

Hierarchy of the Universe

Rank from largest to smallest. 8 (largest) 1 (smallest)



Law of Gravity

Compare the gravitational force between the objects.

Gravitational Force Depends on Mass

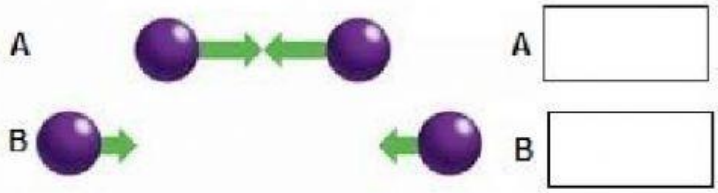
The gravitational force between objects INCREASES as the masses of the objects INCREASES.

A ☐

B ☐

Gravitational Force Depends on Distance

The gravitational force between objects DECREASES as the distance between objects INCREASES.

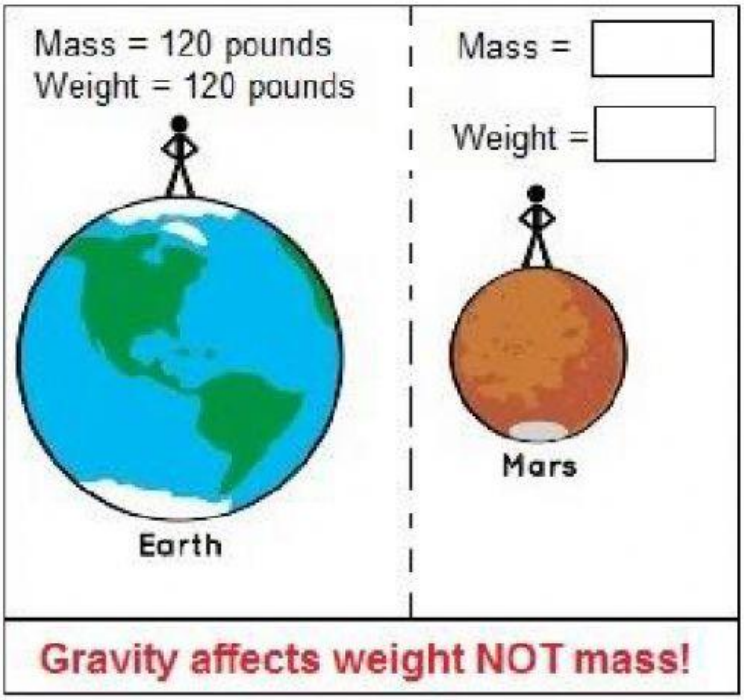


A ☐

B ☐

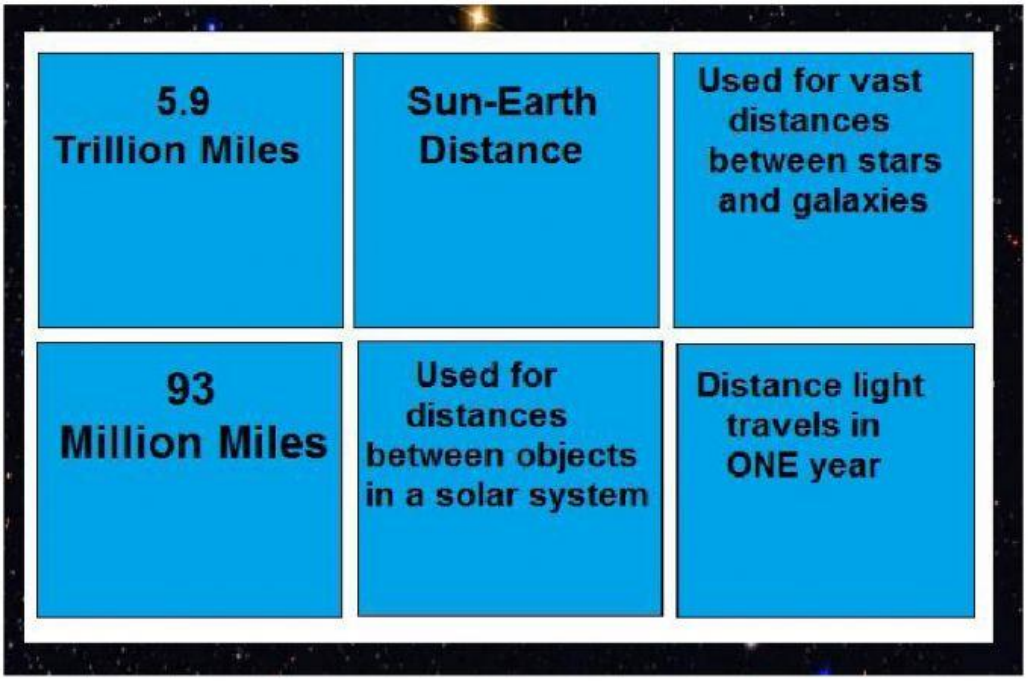
Mass vs Weight in Space

Click the space calculator to determine the correct answer.



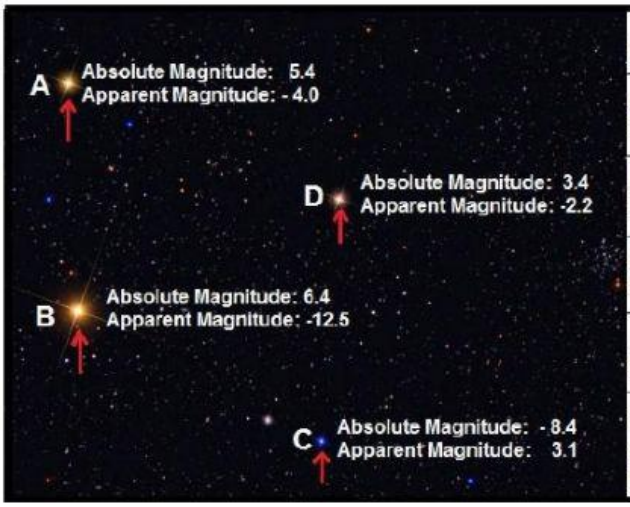
Distance in Space

Compare astronomical units and lightyears.



Apparent Magnitude vs Absolute Magnitude

- Apparent Magnitude: how bright a star appears from Earth
- Absolute Magnitude: the actual brightness of a star at a standard distance of 10 parsecs
- Negative values represent brightest stars; positive values represent dimmest stars



Hottest Star:
Appears to be the Dimmest Star :
Actually IS the Dimmest Star:
Appears to be the Brightest Star:
Actually IS the Brightest Star:
Which unit would be used to describe the distance between Earth and Star B?

Star Classification