

Celestial Calculations

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- What is the shape of the Earth?

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- What is size of the Earth?

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- What is size of the Earth?
- How far is it from the Earth to the Moon?

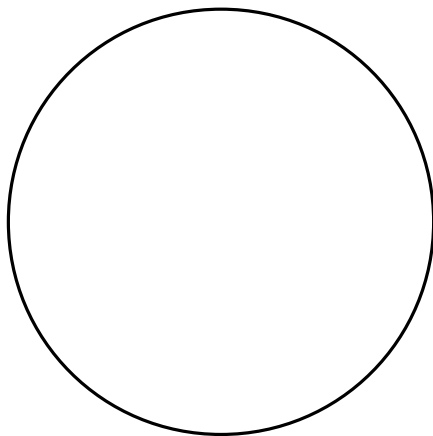
- What is the shape of the Earth?
- What is size of the Earth?
- How far is it from the Earth to the Moon?
- How far is it from the Earth to the Sun?

- What is the shape of the Earth?
- What is size of the Earth?
- How far is it from the Earth to the Moon?
- How far is it from the Earth to the Sun?
- What is the speed of light?

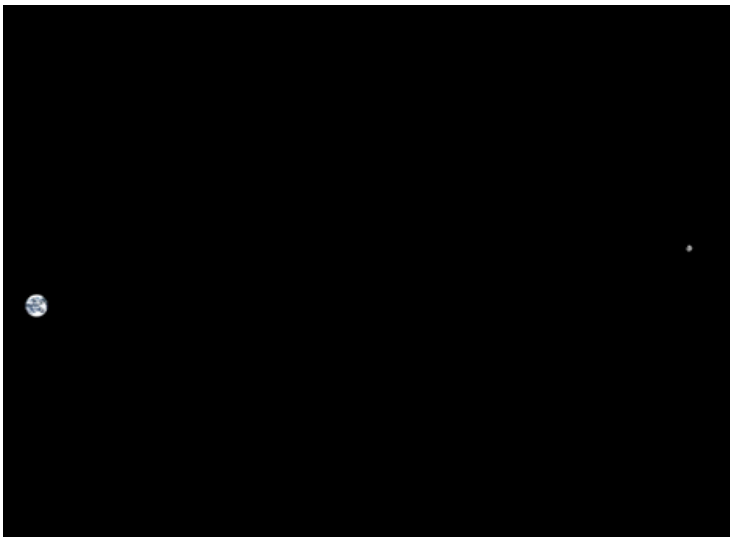
- What is the shape of the Earth?
- What is size of the Earth?
- How far is it from the Earth to the Moon?
- How far is it from the Earth to the Sun?
- What is the speed of light?
- How far is it from the Sun to other stars?

What is the shape of the Earth?

What is the shape of the Earth?
The moon during a lunar eclipse.

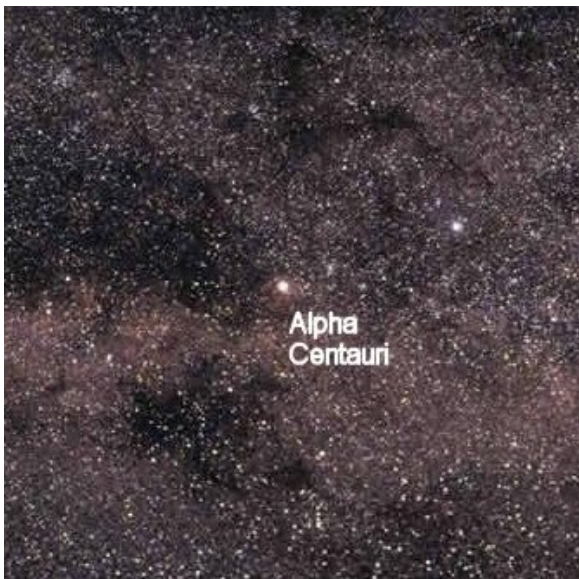


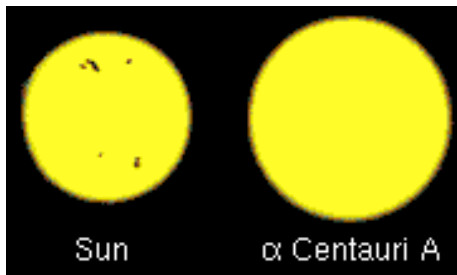












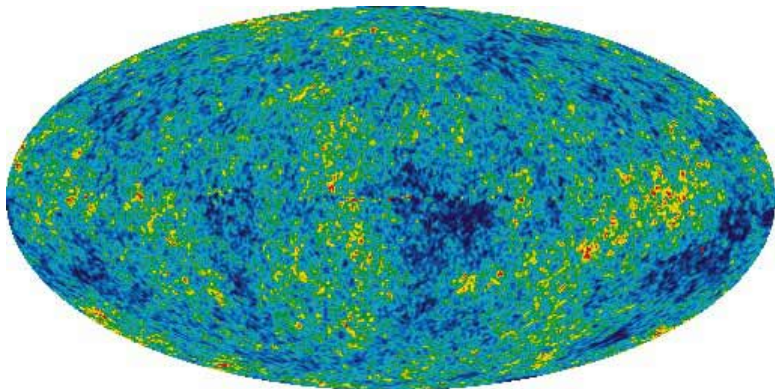
First map



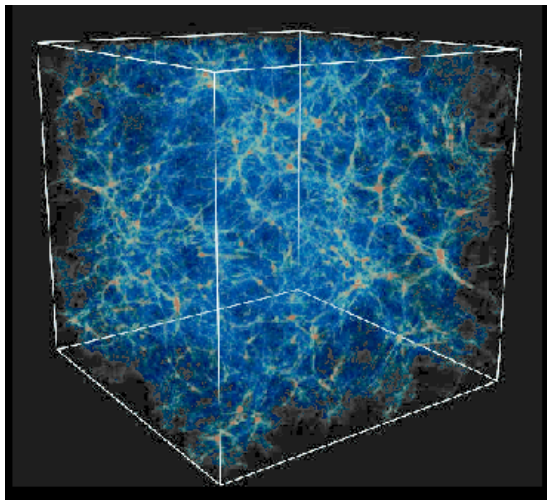
Modern map



Current map of Universe



Map of Universe?



Trig

$$\sin \theta = \frac{b}{c} = \frac{\text{Opposite}}{\text{Hypotenuse}}$$

$$\cos \theta = \frac{a}{c} = \frac{\text{Adjacent}}{\text{Hypotenuse}}$$

$$\tan \theta = \frac{b}{a} = \frac{\text{Opposite}}{\text{Adjacent}}$$

Mnemonic device : SOHCAHTOA