

**Sun**

**Earth**

**Moon**

**Tides**

**Eclipses**

1 pt

1 pt

1 pt

1 pt

1 pt

2 pt

2 pt

2 pt

2 pt

2 pt

3 pt

3 pt

3 pt

3 pt

3 pt

4 pt

4 pt

4 pt

4 pt

4 pt

5 pt

5 pt

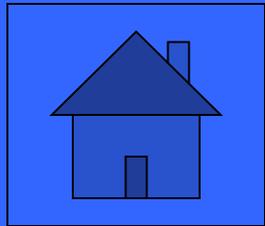
5 pt

5 pt

5 pt

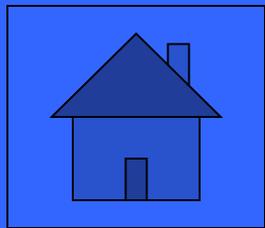
**The sun appears  
the same size as  
the moon in the  
sky for this reason**

**What is distance  
from the earth?**



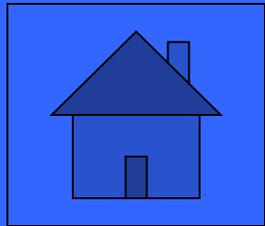
**The sun as the  
center of the  
revolving planets  
is this model**

**What is  
heliocentric?**



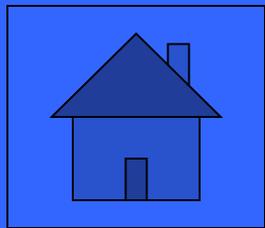
**The sun appears  
to move across the  
sky for this reason**

**What is earth's  
rotation?**



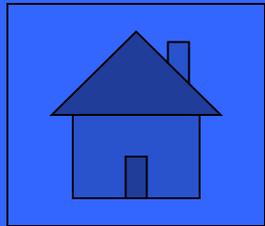
**Shadows are  
longer in the  
winter because of  
this**

**What is the sun  
appears to be low  
in the sky?**



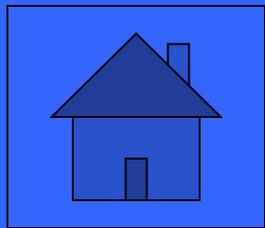
**This is the reason  
the moon shines**

**What is sunlight's  
reflection?**



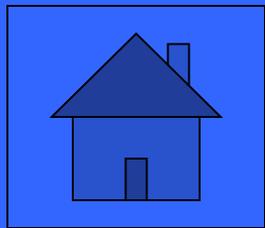
**This is the earth's  
main source of  
energy**

# What is the sun?



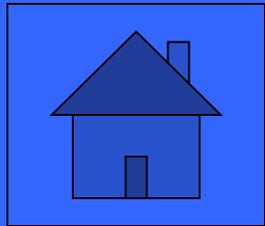
**The earth  
experiences day  
and night in 24  
hours for these  
reasons**

**What are earth's  
rotation and the  
sun only shining  
on half at a time?**



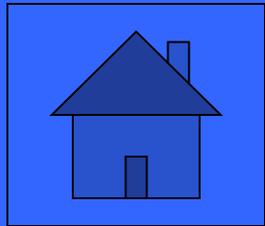
**This is the reason  
we experience  
seasons on earth**

**What is the tilt of  
the earth's axis?**



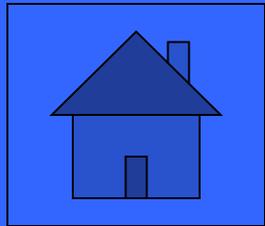
**When the northern  
hemisphere is this, the  
days are longer, there is  
direct light, and it is  
summer**

**What is tilted  
toward the sun?**



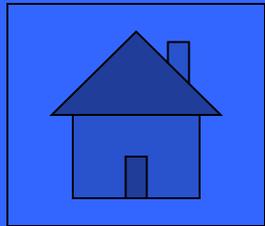
**This keeps us  
warm at night**

**What is earth's  
atmosphere?**



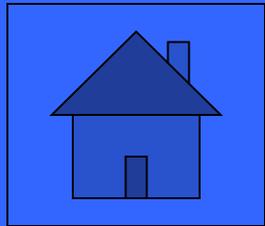
**This is when the  
moon is lit on the  
left**

# What is waning?



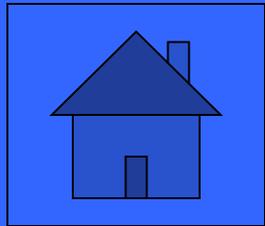
**This is when the  
moon is lit on the  
right**

# What is waxing?



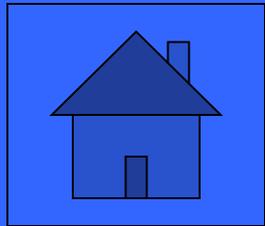
**This is the main  
reason the moon  
appears to change  
shapes**

**What is the  
moon's  
revolution?**



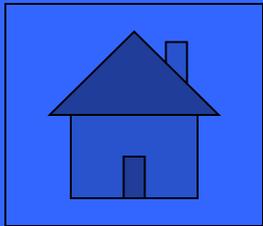


**What is a full  
moon?**



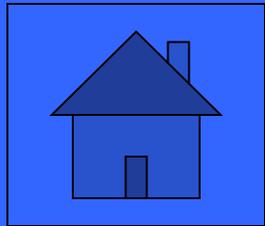
**Because the moon's  
revolution and rotation  
take the same amount  
of time, this amount of  
time is equal to a day on  
the moon**

**What is a year?**



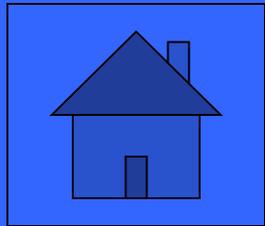
**This tide occurs  
during quarter  
moons**

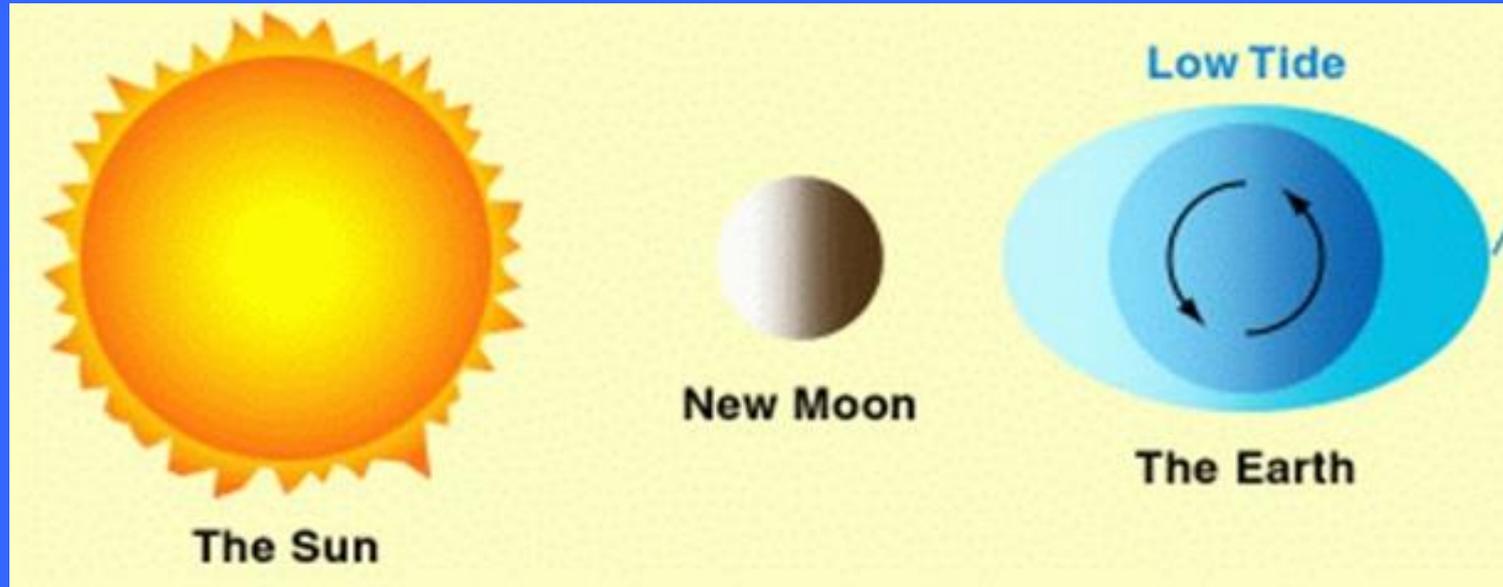
**What is a neap  
tide?**



**This is the reason  
for tides on earth**

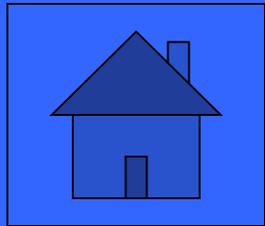
**What is moon's  
gravity?**





**This causes this tide**

**What is a spring  
tide?**



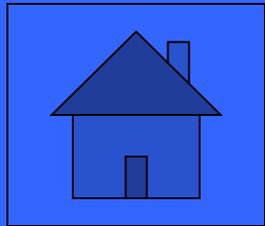
**This is the  
number of high  
tides in one day**

**What is two?**



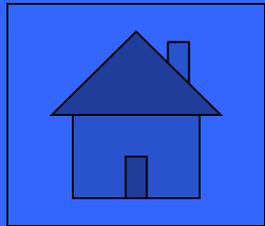
**High and low  
tides occur twice  
each day because  
of this**

**What is earth's  
rotation?**



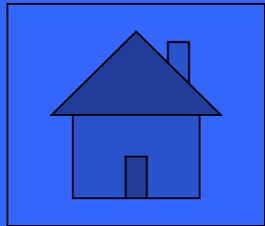
**When you  
experience a total  
eclipse, you are in  
this**

**What is the  
umbra?**



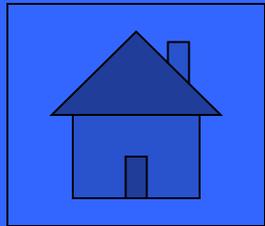
**This is why we  
don't experience  
lunar and solar  
eclipses every  
month**

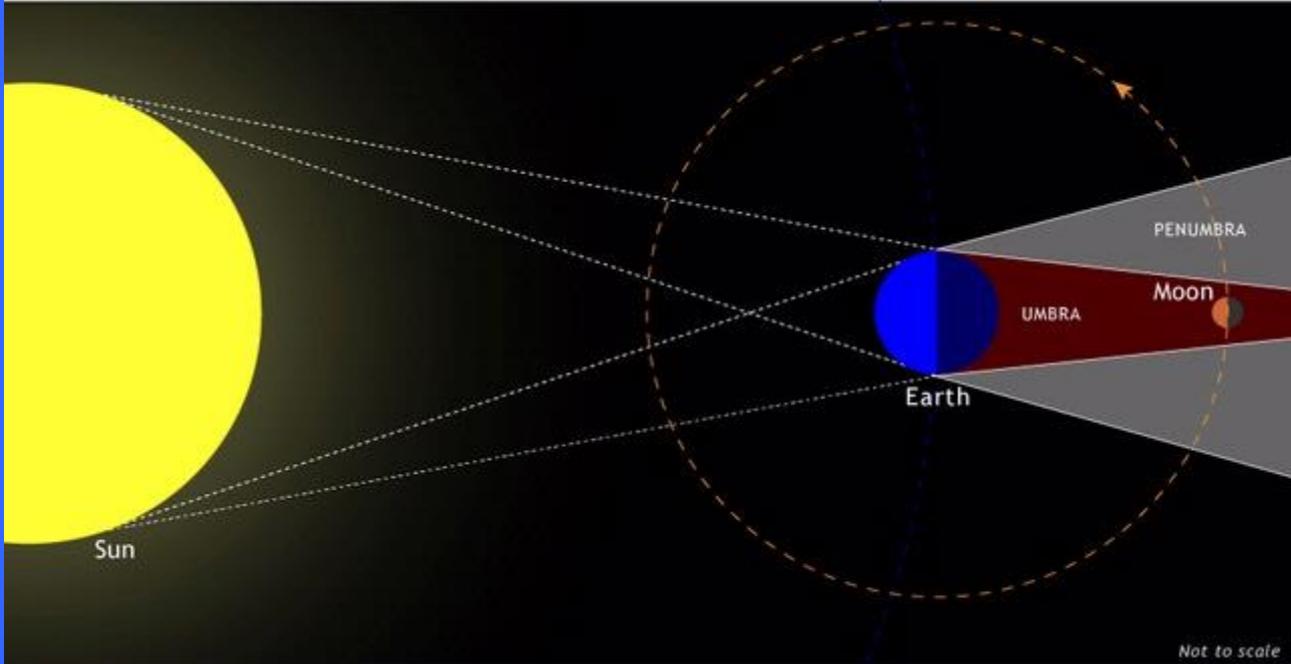
**What is moon's  
tilted orbit?**



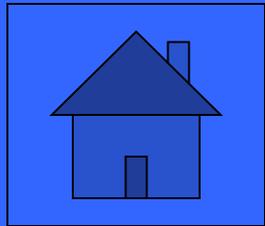
**When you  
experience this,  
you are in a  
partial eclipse**

**What is the  
penumbra?**





# What is a lunar eclipse?



**This is the total  
number of eclipses  
every year**

**What is four?**

