



EMPIRIBOX

Primary School Science

Empiribox doesn't like to limit lessons to staying here on planet Earth; we want to launch up into space and see what science we can do up there! From the planets to stars, comets to rockets, we'll explore it all.

In this activity, your class will learn about the Earth rotation around the sun and make a model to show how the Sun, Earth and Moon work together.

Spectacular Science

Sun, Earth and Moon

The Sun, Earth and Moon

The Moon rotates around the Earth and in turn, the Earth rotates around the sun. This is due to the gravitational pull of the Sun and the Earth.

In space, every object is consistently moving forward but, due to strong gravitational pull from some objects (like the sun) many planets, stars or other objects will move around them. The greater the objects mass, the greater the gravitational pull.

This is why the Earth rotates around the Sun. The Moon rotates around the Earth because it is closer to it.

While the Earth is rotating around the Sun, it is also spinning around its axis in a circle. Although we can't actually feel it, it is going at about 1,000 MPH and takes 24 hours to rotate. This is where we get day and night from, when the side of the planet is in sun or darkness. Scientists believe that the Earth started spinning when the Big Bang happened and that it hasn't stopped yet because nothing has resisted it and made it stop.

The Moon's gravitational pull also affects the Earth by creating tides.

What you will need

The cut-out templates on the next page

Split pin paper fasteners

Scissors

Activity – make a Sun, Earth and Moon model

Cut out the shapes on the next page and use split pins to connect the centre of the Moon, Earth and Sun to the arms as shown in the photographs.



