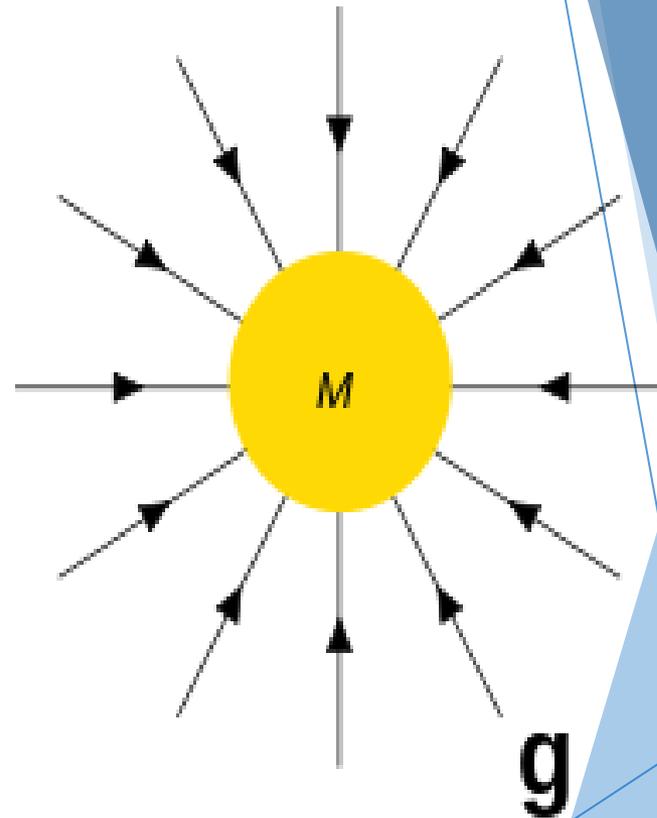


GRAVITY

By Hannah
Year 6 Mr Spiteri

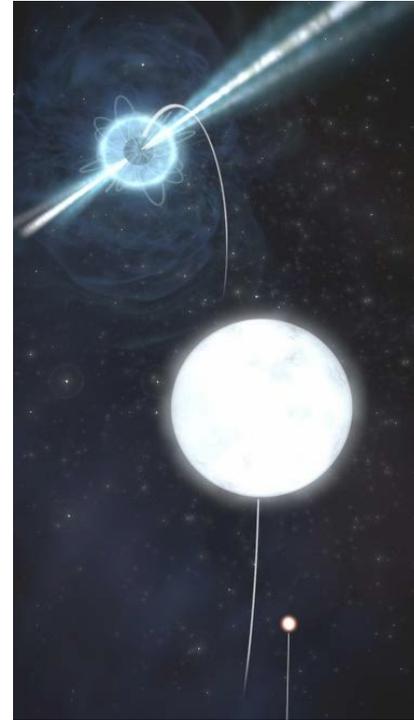
What is Gravity?

- ▶ Gravity is a force which tries to pull two objects towards each other.
- ▶ Anything which has mass also has a gravitational pull.
- ▶ The more massive an object is, the stronger its gravitational pull is.



Important Facts:

- ▶ Gravity is what holds the planets in orbit around the Sun and what keeps the Moon in orbit around the Earth.
- ▶ Tides are caused by the rotation of the Earth and the gravitational effects of the Moon and Sun.
- ▶ Because Mars has a lower gravity than Earth, a person weighing 200 pounds on Earth would only weigh 76 pounds on Mars.



Who discovered Gravity?



Isaac Newton was the first person that published a comprehensive theory of gravity in 1687. Though others had thought about it before him, Newton was the first to create a theory that applied to all objects, large and small, using mathematics that was ahead of its time.

It is thought that Isaac Newton's theories on gravity were inspired by seeing an apple fall from a tree.

Newton's theory was successful for hundreds of years - until Albert Einstein came along with his general theory of relativity to describe gravity.

Let's try an Experiment

Use a ping-pong ball and a piece of clay to test how the weight of objects affects gravity:

- ▶ Cut a ping-pong ball in half.
- ▶ Press a small piece of clay into the bottom of the first half ball.
- ▶ Insert a straw vertically into the clay.
- ▶ Pull the straw down toward the table and then release.

What happens?

The straw should flip back into a vertical position.

Repeat the experiment with various sizes of clay balls attached to the top of the straw and observe the results.

If you enjoyed this topic...

....please watch this short clip:

https://www.youtube.com/watch?v=EwY6p-r_hyU

And here you have another one you might like:

<https://www.youtube.com/watch?v=suQDwZcnJdg>

THANK YOU FOR
YOUR ATTENTION

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light to dark, creating a modern and professional aesthetic.