

Mad Science Pre-session webquest Research the following scientists and answer the questions... **Albert Einstein** Why is he famous? What do his discoveries tell us about time travel? What did his teachers say about him at school? Maria Sklodowska-Curie Curie won two nobel prizes; what were they for? What are the two elements she discovered? What effect did radiation have on her notebooks? **Isaac Newton** What effect did an apple have on his research? Briefly describe the three Laws of Motion: What strange "science" did Newton become involved with later in life?



Mad Science

Post-session comprehension

Story						
Why did Prof. Chumbley and Mungo travel back in time from 2036?						
What is life like in their time?						
What equipment did they use to create a "vortex generator"?						
Science						
Complete the description of a vortex generator with the words below						
aperture t	:hrust r	membrane	vortex	chamber	pulse	
within the	, pushir	ng air forward		n forced through	creates n a small hole (or	

Order the sentences below to describe how superstitions are formed

For example, many athletes have lucky items of clothing (like a sock) because they were wearing it when they first had a big success. They believe that the sock is what makes them successful, although logically we know this is not true.

This is also how our parents teach us to behave: if we do good things, we are rewarded; if we do bad things, we are punished.

However, sometimes our brains make connections between things that are not related, just because they happen at the same time.

This is why you might think it is bad luck to break a mirror, or good luck to kick somebody's bottom.

Humans are naturally programmed to create connections between behaviours and things that happen, for example if you see a dark cloud you know it is going to rain.



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Reading comprehension (higher)

Nicolaus Copernicus was an astronomer. People know Copernicus for his ideas about the sun and the earth. His main idea was that our world is *heliocentric* (*helios* = sun). His <u>theory</u> was that the sun is in the middle of the <u>solar system</u>, and the planets go around it. This was published in his book, *On the revolutions of the heavenly spheres*.

Copernicus was born in 1473 in the city of Thorn (Toruń), in Royal Prussia, a mainly Germanspeaking region that a few years earlier had become a part of the Kingdom of Poland. He was taught first in Krakow and then in Italy, where he <u>graduated</u> as a lawyer of the church. He also studied medicine to serve his fellow priests. Copernicus spent most of his life working and <u>researching</u> in Frombork, Warmia, where he died in 1543.

Copernicus was one of the great <u>polymaths</u> of his age. He was a priest, mathematician, astronomer, doctor,

lawyer, physician, politician, administrator, diplomat, economist, and soldier. During all these jobs, he treated astronomy as a hobby. However, his formula of how the sun, rather than the earth, is at the centre of the solar system, is still one of the most important scientific hypotheses in history. It was the beginning of modern astronomy.

Read the article above and try to guess the meaning of the <u>underlined</u> words. Write your guesses in the table below and then check your answers in a dictionary or with your teacher.

Theory	
Solar system	
Graduate	
Research	
Polymath	
hypothesis	

Use some of the words above to complete the following sentences:

1	I think governments should do more	on how to stop climate change
⊥.	i tillik governinents snould do more	on now to stop climate change

2. Jupiter is the biggest planet in the	and Mercury is the smallest.
3. Leonardo da Vinci is one of history's magenius in many different subjects!	ost far LearningWithoutBorders European Educational Programme
Mad Science	
Reading comprehension (lower)	
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Use some of the words above to complete the following sentences:

1.	I think governments should	l do more	on how to stop climate change.
2.	Jupiter is the biggest plane	t in the	and Mercury is the smallest.
3.	When I	from university, I want to	be a famous scientist.