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| **St Julie Catholic Primary School – Science** |
| **Topic: Could you be the next Helen Sharman or Tim Peake?** | **Year: 5** | **Strand: Physics: Earth and Space** |



**What should I already know?**

The sun is a light source

The moon reflects light

Gravity is a force

**Maggie Aderin-Pocock** *(born 1968)*

Maggie is a British space scientist and

science educator. She is working on the

 observation instruments for the Aeolus

satellite, which will measure wind speeds

 to help the investigation of climate change.

**Sticky Knowledge to remember:**

Know the sun is a **star** at the

centre of our solar system**.**

**Know the moon orbits the Earth.**

It takes about **28 days** to

complete its orbit.

**Know the Earth orbits the Sun.**

It takes **365¼ days** to

complete its orbit around the

 Sun. **This is a year.**

**Know** **the Earth rotates (spins) on**

 **its axis once every 24 hours**

 

**In this topic I will:**

* Know that the Sun, Earth and Moon are approximately spherical
* Investigate the size of the Sun, Earth, Moon
* Know why we have day / night
* Know the movement of the planets in the solar system
* Know that people had different theories about how the planets moved

**In investigations I will:**

* Identify fair tests
* Identify and use variables
* Make predictions
* Repeat measurements for accuracy
* Ask scientific questions
* Build scientific models to help answer questions

**Nicolaus Copernicus** *(1473-1543)*

Nicolaus was a Polish astronomer and

mathematician who formulated the

 **heliocentric mode**l of the solar system

that placed the Sun rather than the

Earth at the centre of the universe.

**The Sun, Earth and Moon are approximately spherical bodies.**

**Key Vocabulary**

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| **Earth** | The planet we live on. It is the third planet from the Sun. |
| **Sun** | The Sun is the star at the centre of our solar system. **It is not safe to look at the sun, even when wearing dark glasses.** |
| **Moon** | The moon is the only natural satellite of the Earth. |
| **planets** | Large round objects, made of rock or gas, that move around the sun. |
| **solar system** | The sun and all the planets that orbit around it. |
| **star** | A huge ball of glowing gas in space. |
| **rotate** | When an object rotates it turns (spins) on its axis. |
| **orbit** | The curved path that an object follows going around a star or a planet. |