

Label the planets (* include the Dwarf Planet). Then colour it!

What will we be learning?

- Why we know the Earth sun and moon are spherical.
- To identify scientific evidence which does or does not provide evidence for an idea or argument.
- To explain night and day and the apparent movement of the sun across the sky.
- Describe the movement of the moon and its apparent changes in shape.
- To investigate night and day in different parts of the Earth.
- To name and order the planets in our solar system.

Key facts

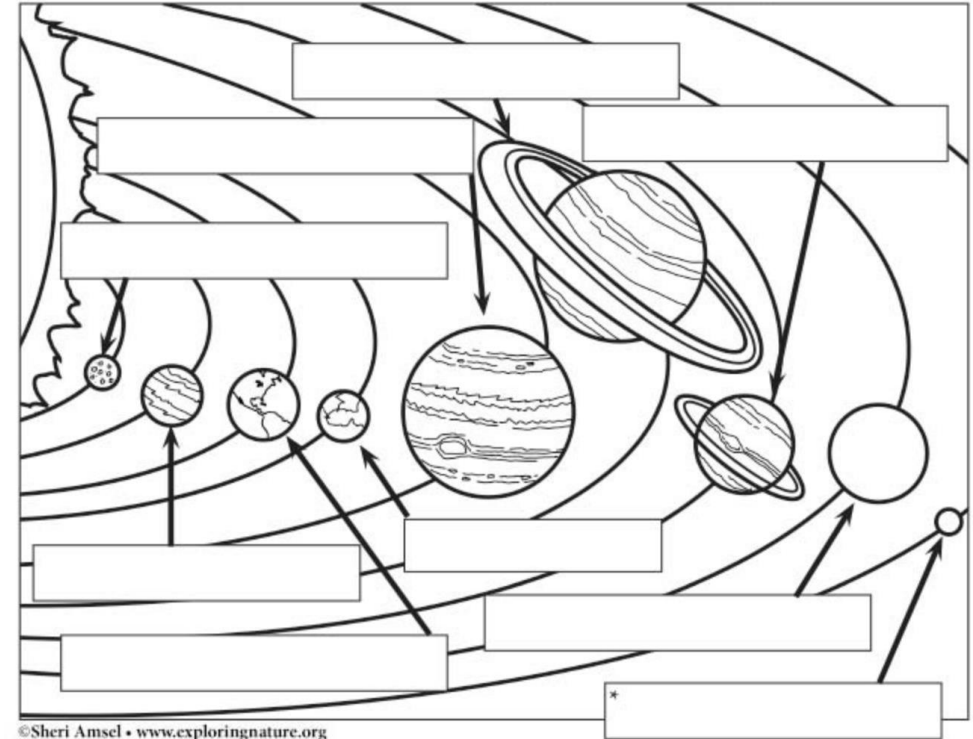
- Planets are spherical
- The Earth rotates on its axis. The Earth does a full rotation once in every 24 hours.
- The Earth orbits the Sun. It takes a little more than 365 days to orbit the Sun.
- The date and time can be different in different parts of the Earth.
- Daytime occurs when the side of the Earth is facing the sun. Night occurs the side of Earth is facing away from the sun.
- The moon orbits the Earth.
- The Earth sometimes casts a shadow onto the moon.

Key vocabulary

- **Planet:** A large object, round or nearly round, that orbits a star.
- **Star:** A giant ball of gas held together by its own gravity.
- **Moon:** A natural satellite which orbits Earth or other planets.
- **Spherical Bodies:** Astronomical objects shaped like spheres.
- **Satellite:** Any object or body in space that orbits something else.
- **Orbit:** To move in a regular, repeating curved path around another object.
- **Rotate:** To spin
- **Axis:** An imaginary line that a body rotates around. E.g. Earth axis runs from the North Pole to the South Pole.

Key knowledge/takeaways

- The Sun is a star at the centre of our solar system and that it has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (Pluto was reclassified as a 'dwarf planet' in 2006).
- The moon is a celestial body that orbits a planet (Earth has one moon; Jupiter has four large moons and numerous smaller ones).
- It is not safe to look directly at the Sun, even when wearing dark glasses.
- It appears to us that the sun moves across the sky during the day but the sun doesn't move at all. It seems that the sun is moving because of the movements of Earth.



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Can you sort the Planets based on what they are made up of?

Rocky Planets	Mainly Gas (with a metal/rock core)

How do shadows, created by the Sun, change during a day?
