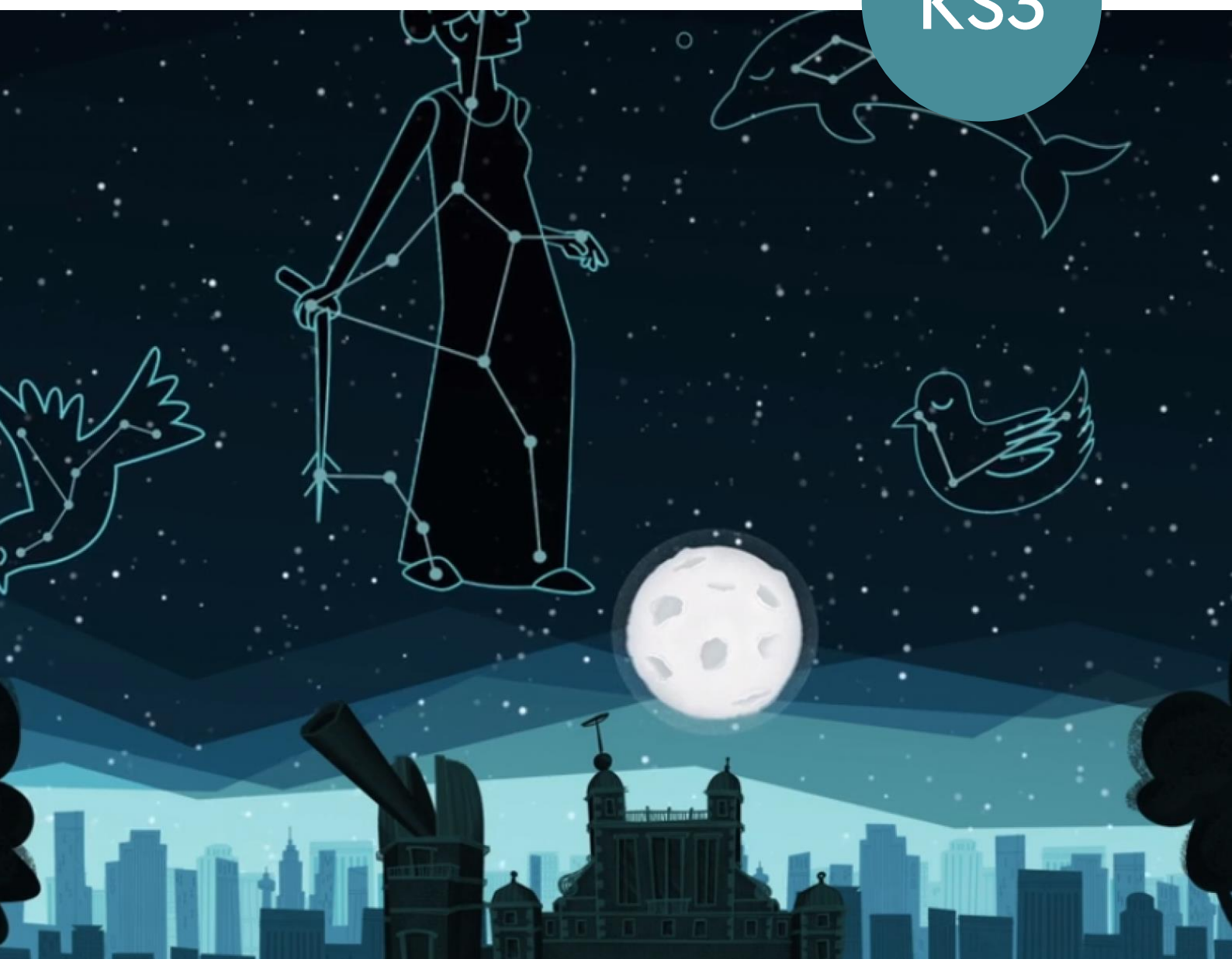


Key Stage 3 Resource Pack

KS3



Hello Key Stage 3 Teacher!

We have a wealth of resources on our website to support your in-class teaching. If you have any questions about this guide or about our videos and activities let us know by emailing ROGEducation@rmg.co.uk.

Solar System

How did the Solar System form?

- **Resource type:** Classroom activity and video
- **Topics covered:** Sun, planets, moons, comets and asteroids, formation of the Solar System
- **Find it here:** [Formation of the Solar System | Royal Museums Greenwich](#)

Looking for Jupiter

- **Resource type:** Classroom activity and video
- **Topics covered:** Observations, constellations, Stellarium software
- **Find it here:** [Looking for Jupiter | Royal Museums Greenwich](#)

Mission to Mars

- **Resource type:** Video
- **Topics covered:** Conditions, days and years on Mars
- **Find it here:** [Mission to Mars | Royal Museums Greenwich](#)

Space Rocks

- **Resource type:** Video
- **Topics covered:** Asteroids, meteors, Kuiper belt, Oort Cloud, comets, conditions for life
- **Find it here:** [Space rocks | Royal Museums Greenwich](#)

Pluto and the dwarf planets

- **Resource type:** Video
- **Topics covered:** Pluto, dwarf planets

Find it here: [Pluto and the Dwarf Planets | Royal Museums Greenwich](#)

Reason for the Seasons

- **Resource type:** Video
- **Topics covered:** Seasons, Earth's tilt, seasons on other planets
- **Find it here:** [Reasons for the Seasons | Royal Museums Greenwich](#)

The Rosetta Mission

- **Resource type:** Classroom activity and resource
- **Topics covered:** The Rosetta Mission, weight and mass, standard form, comets
- **Find it here:** [The Rosetta Mission | Royal Museums Greenwich](#)

Moons

Exploring Moons

- **Resource type:** Classroom activity and video
- **Topics covered:** Properties and characteristics of moons of the Solar System
- **Find it here:** [Exploring moons | Royal Museums Greenwich](#)

Our Mighty Moon

- **Resource type:** Video
- **Topics covered:** Moon, gravity, tides, eclipses
- **Find it here:** [Seeing The Invisible](#)

Moon Watch

- **Resource type:** Classroom activity and video
- **Topics covered:** Sun, Earth, Moon, lunar phases, light and dark, shapes

Find it here: [Moon Watch | Royal Museums Greenwich](#)

Mechanics

Collisions and explosions in the Universe

- **Resource type:** Video
- **Topics covered:** Impact craters, galaxy mergers, supernovae, big bang, gravitational waves
- **Find it here:** [Collisions and Explosions in the Universe | Royal Museums Greenwich](#)

What is Gravity?

- **Resource type:** Video
- **Topics covered:** Orbits, tides, Galileo, gravitational lensing, planets
- **Find it here:** [What is Gravity? | Royal Museums Greenwich](#)

Stellar Sat Nav

- **Resource type:** Classroom activity
- **Topics covered:** Bearings, constellations
- **Find it here:** [Stellar Sat Nav | Royal Museums Greenwich](#)

Newton's Laws of Motion

- **Resource type:** Classroom activity and video
- **Topics covered:** Newton's laws of motion, weight, air resistance, balanced forces, velocity change
- **Find it here:** [Newton's Laws of Motion | Royal Museums Greenwich](#)

Drawing Orbits

- **Resource type:** Classroom activity
- **Topics covered:** Planetary orbits, ellipses, Kepler's laws, foci
- **Find it here:** [Drawing Orbits | Royal Museums Greenwich](#)

Celestia Navigation

- **Resource type:** Classroom activity
- **Topics covered:** Celestia program, exoplanets, solar system, orbits, Milky Way
- **Find it here:** [Celestia Navigation | Royal Museums Greenwich](#)

Big Questions

How will the Universe end?

- **Resource type:** Classroom activity and video
- **Topics covered:** Cosmology, dark matter, dark energy
- **Find it here:** [Teacher resources: The fate of the Universe | Royal Museums Greenwich](#)

What's inside a black hole?

- **Resource type:** Video
- **Topics covered:** Black holes, speed of light, orbits, time dilation, spaghettification
- **Find it here:** [What's inside a black hole? | Royal Museums Greenwich](#)

Are there aliens?

- **Resource type:** Classroom activity and video
- **Topics covered:** Speed, distance, time, light-years, standard form, extrasolar planets
- **Find it here:** [Are there aliens? | Royal Museums Greenwich](#)

How big is the Universe?

- **Resource type:** Video
- **Topics covered:** Solar System, galaxies, speed of light, big bang, dark energy
- **Find it here:** [How big is the Universe? | Royal Museums Greenwich](#)

Where does Space begin?

- **Resource type:** Video
- **Topics covered:** Earth's atmosphere, different types of light, satellites
- **Find it here:** [Where does space begin? | Royal Museums Greenwich](#)