Destination Space  KS1 duration: 1 hour

Students will encounter the wonders of space flight and follow astronaut Tim Peake’s mission to the International Space Station. They will learn about the challenges of living and working in space, including launching a rocket, protecting themselves with a space suit and catching a floating poo!

**Key Words:**

**Learning objectives. Students will:**
Learn about Tim Peake’s mission to the International Space Station (ISS)
Establish that a large amount of energy and fuel is required to launch a rocket into space
Demonstrate the challenges of living in microgravity
Consider how the spacesuit design works to protect astronauts during a spacewalk
Astronauts sometimes have to perform spacewalks to fix parts
Understand how air resistance helps astronauts re-enter the Earth’s atmosphere safely using a parachute

**Content. Students will:**
Hear about Tim Peake’s training and the preparations for his recent trip into space
Construct rockets and watch them launched under dramatically high pressure towards a target
Explore the experience and challenges of life in microgravity - maneuvering an object in mid-air and discovering how astronauts sleep and go to the toilet
Investigate different materials to design a spacesuit and an air supply
Experience the force of air resistance underneath a giant parachute like the ones used to slow the capsule down

**Curriculum Links:**
Science: Working scientifically
Science
Year 1

**Everyday materials**
Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
Compare and group together a variety of everyday materials on the basis of their simple physical properties
Year 2

**Animals, including humans**
Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
Identify that humans and some other animals have skeletons and muscles for support, protection and movement
Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene

**Uses of everyday materials**
Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses

**Forces**
Explain that unsupported objects fall towards the Earth because of the force of gravity

**Potential Hazards and accessibility**
Students will handle latex balloons and hand-held blowers (supervised)

**Related activities**
Exhibition  Space and Launch it exhibition
Planetarium  Seasonal Stargazing 2D, 3D and We Are aliens

Contact us: 0117 915 7777 education@wetherburyuc.org   Booking line opening hours: Mon- Fri 8.30am- 5pm term time and 10am- 2pm during school holidays