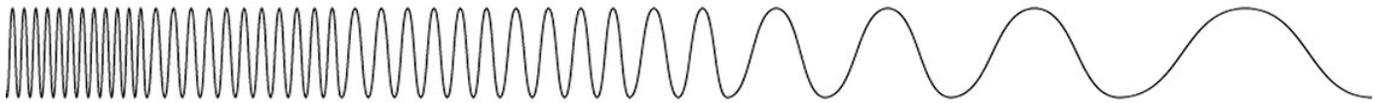


Activity Pack 1 – What’s In Space?

Please watch video 1 – ‘What is Webb?’.

The activities suggested below are designed to get your learners thinking about what is out there in space, and what a telescope might be able to see. There are no right or wrong answers during these activities as humanity hasn’t, and never will be able to, explore the entire Universe.

In the video, we introduced the concept of the Electromagnetic Spectrum – the range of different types of light which exist in the Universe:



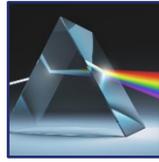
Gamma rays



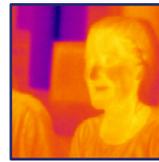
X-rays



Ultraviolet



Visible light



Infrared



Microwaves



Radio waves

During the activities you could refer back to these different *flavours* of light. Our eyes can only see a tiny amount of the total light given off by the stars and galaxies that make up the Universe. What might the night sky look like if we were to view a different type of light?

Activity Idea 1 – What’s in Space Discussion

Class discussion about what is found in space:

- What things do you find in space? (*stars, planets, galaxies, nebulae, black holes, astronauts, rockets etc.*)
- What can you see on a clear night? (*dots of light, the Moon, shooting stars etc.*)
- Why is it difficult to see them? (*they are far away, space is big etc.*)
- What can we use to help us see them better? (*telescopes, binoculars, cameras etc.*)

Activity Idea 2 – What’s in Space Art

Resources

- Paper
- Art materials, e.g.
 - Colouring pencils
 - Paint
 - Decorating materials, e.g. sequins/felt/pom-poms
 - Glue

Instructions

This is a creative task for your learners to imagine what is in space and what could be seen using a telescope.

The art can be created using any materials available to you.

Some examples of what could be drawn/created are shown below, and include: stars, galaxies, planets, moons, astronauts, rockets, aliens etc.

