Resource two

Look at the resource below, which shares some information about different types of telescopes.

Hubble Space Telescope

The Hubble Space Telescope was launched into space in 1990. It orbits the Earth and collects light using a mirror that is 2.4m in diameter. It can see visible, infrared and ultraviolet light.

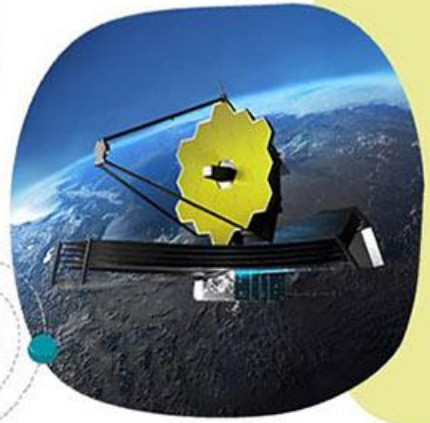
It is 13.2 metres long.

Reflector Telescope

This telescope is a small reflector telescope. A reflector telescope uses one or more curved mirrors to form an image by reflecting light. The lens diameter on this telescope is 7.6cm. Many people buy telescopes like this to use at home. It can be easily transported and the tripod it sits on adjusted.

Astronomy Observatory Telescope

Many telescopes can be found in observatories (a room or building housing a telescope or other equipment for observing natural phenomena). The public can pay to visit this observatory and use the 12-inch (30.48 cm) refracting telescope. It uses a combination of lenses to provide an image of a distant object.



James Webb Space Telescope

This telescope is the largest and most powerful telescope ever built. It is as tall as a three-storey building and as long as a tennis court and it orbits the Sun. It can detect light no other telescope has before using a mirror that is 6.5m in diameter. It will primarily be observing infrared light.

What is similar about each telescope? What is different?