H

Higher Assignment  
Guide Sheet A: Exoplanet



Light level meter

**Instructions:**

* Cut out circular discs of various diameters to measure represent the planets Students may devise other ways of making the planets. One group has used coins of various sizes.
* Set up the large diffuse lamp to represent the star amd a light detector to measure the light from the star. Any lightmeter which gives a numerical output can be used to measure the brightness of the star. A lightmeter app can be used.
* Use a darkened room or find a method of measuring ambient light levels
* Suspend the planet in front of the star. One method that works well is to make a cross wire from light nylon fishing line. The planets can be attached in the centre using blutak or equivalent.
* Move the disc across the front of the star, measuring distance and light levels
* Use the results to see how the light level alters as the planet transits the star.