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Higher Assignment
Guide Sheet B: Stellar Brightness

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 and 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. Make a cross wire from light nylon fishing line and attach the planets in the centre using blutak or equivalent.
* Take various light level readings of the brightness of the star for different diameters or radii of planets