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OPTICS

This is a sample Optics Activity Sheet only. Its main purpose is to show you some of the interesting activities that you can do when you choose this badge. Also, you can use this sample sheet to start doing the badge activities, while your teacher is sending away for the full activity sheet and badge.

If you have completed some of these activities before your full sheet arrives, your teacher can mark this sheet, then transfer the marks to the full activity sheet.

Sample Optics Activity Sheet

Rating		Exercises in Optics	Teacher's initials and date
2	*	Collect and make a collage or digital presentation of pictures of at least 5 different optical instruments. Name each instrument, and state its purpose.	
3	*	Draw a large diagram of the eye and label the main parts such as the iris, optic nerve, macula, retina, lens and cornea.	
5	***	Build a simple working periscope.	
10	***	Build a simple light meter using a light dependent resistor or a photo transistor, a battery, current meter and suitable resistor.	
15	***	Build a simple picture projector (epidiascope) to operate off 12 volts or less.	
24	**	Find out the difference between concave and convex mirrors. With diagrams, show what happens to parallel beams of light hitting the mirror.	

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