

OPTICS

SCIENCE BADGE ACTIVITY SHEET

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.

Rating	Exercises in Optics	Teacher's initials and date
1*	Write an original poem or song about "light". At least 7 lines.	
2*	Collect and make a collage of pictures of optical instruments. A3 or larger.	
5**	Build a simple working periscope.	
6**	Build a pin-hole camera	
8**	Do a library research project on how colour film works.	
11***	Build a simple light meter using a light dependent resistor (LDR) or a photo transistor, a battery, current meter, and a suitable resistor.	
13**	Using two convex lenses, build a simple astronomical telescope .	
14*	Demonstrate some important point about polarisation of light.	
16**	Make a large poster project (A3) or larger on how a laser works and some of its uses.	

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