

TECHNOLOGY

SCIENCE BADGE SAMPLE ACTIVITY SHEET

This is a sample Technology 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 Technology	Teacher's initials and date
1	**	Design and build a bridge to span a 1 metre gap between two tables. Use materials such as plastic drinking straws, paper or LEGO. What is the heaviest mass that can be supported if placed in the middle of your bridge? Test and record your results. Show your teacher a photo, video, or a detailed sketch of your model.	
7	**	Design and build a model land yacht. Measure the distance it will travel away from a single electric fan. Make an improvement to the design so that it will travel further. Report on the design and building process and how you tested and improved your design.	
8	*	Investigate how lifts in tall buildings operate. Create a labelled diagram which shows the important features of the lift design and explains how it works.	
12	**	Using LEGO Technic or similar, design and build a trolley that has a device for picking up and unloading messy or prickly garden rubbish. Report on the process of designing, building and testing. State how you used this information to improve your design.	
19	**	Using LEGO Technic construct a model of a household appliance such as a cake mixer, dishwasher, food processor. Take a series of photos of your construction process.	

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