

SCIENCE

SCIENCE UNDERSTANDING

Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources

- recognising the need for a complete circuit to allow the flow of electricity
- exploring the features of electrical devices such as switches and light globes

SCIENCE AS HUMAN ENDEAVOUR

Scientific knowledge is used to solve problems and inform personal and community decisions

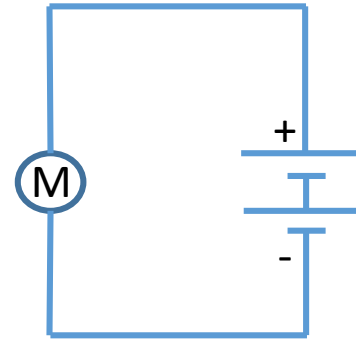
- Considering how electricity and electrical appliances have changed the way some people live
- Discussing the use of electricity

SCIENCE INQUIRY SKILLS

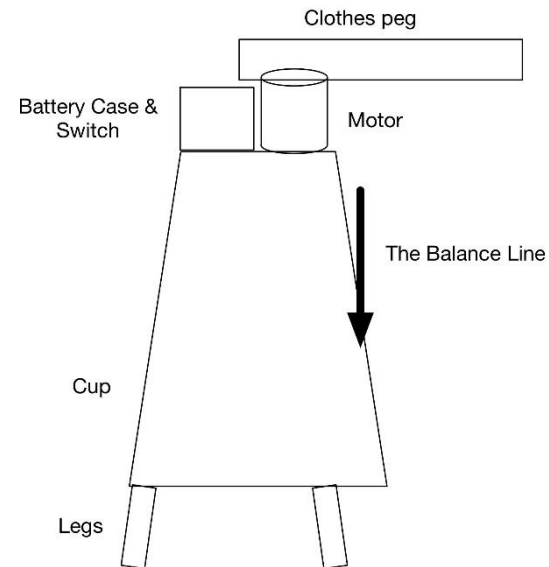
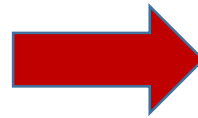
Identify, plan and apply the elements of scientific investigations to answer questions and solve problems using equipment and materials safely and identifying potential risks

- Following a procedure to design an experimental or field investigation
- Discussing methods chosen with other students, and refining methods accordingly

ENGINEERING



The **design** of the electrical circuit



TECHNOLOGY



The **product** of scientific understanding and engineering design

Adjusting the peg changes the balance line and rotating the peg moves the balance and generates the wiggle.

How much? That is **design!**

MATERIALS



<http://researchparent.com/homemade-wigglebot/>

