

Foil Circuit Investigation Planner

Plan your fair test

This is an **assessed investigation**. You will plan a fair test using a foil ribbon as a wire, get it approved, then run it.

Example question: "Does the length of the foil ribbon affect how brightly the globe glows?" — Change: foil length. Measure: brightness (0–3). Keep the same: same cell, same globe, same foil width.

Get your plan **approved by the teacher** before connecting anything. Use low-voltage cells only, and always keep the globe in the loop.

1. My testable question:

2. My variables:

Variable job	My plan
CHANGE	
MEASURE (and how)	
KEEP THE SAME (at least two)	

3. My prediction (what + why):

4. My **method**, with one safety note:

Record your results

Keep your results safe — you'll graph and evaluate them next lesson.

Once your plan is approved, build the circuit, change only your one variable, and record your results.

Foil length (cm)	Brightness (0-3)
10 cm	
20 cm	
30 cm	
40 cm	

State your result in one sentence: "As the foil got ____, the globe got ____, which (did / did not) match my prediction."

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