NAME _____ CLASS _____

EVALUATE YOUR TORCH

Engineers always **evaluate** their work. They test it against the specification, find what went well and decide what to improve next time.

Be honest – good engineers learn as much from what went wrong as from what went right.

1 Rate your torch circuit against each quality check (1 = poor, 5 = excellent). 5 marks

QUALITY CHECK	1	2	3	4	5
All solder joints are shiny and cone-shaped					
No solder bridges between tracks					
Component legs trimmed neatly					
Wires are tidy and secure					
Both LEDs light when the switch is pressed					

WHAT WENT WELL

EVEN BETTER IF

DESIGN AN IMPROVEMENT

2 Your torch circuit needs a case. Sketch an idea for a torch case. Add notes to explain where the battery goes, how the switch is reached and how the light gets out. 6 marks

3 Suggest **one** extra feature for your torch and the component you would need to add. 2 marks