Graph and Evaluate Your Data

Table and line graph

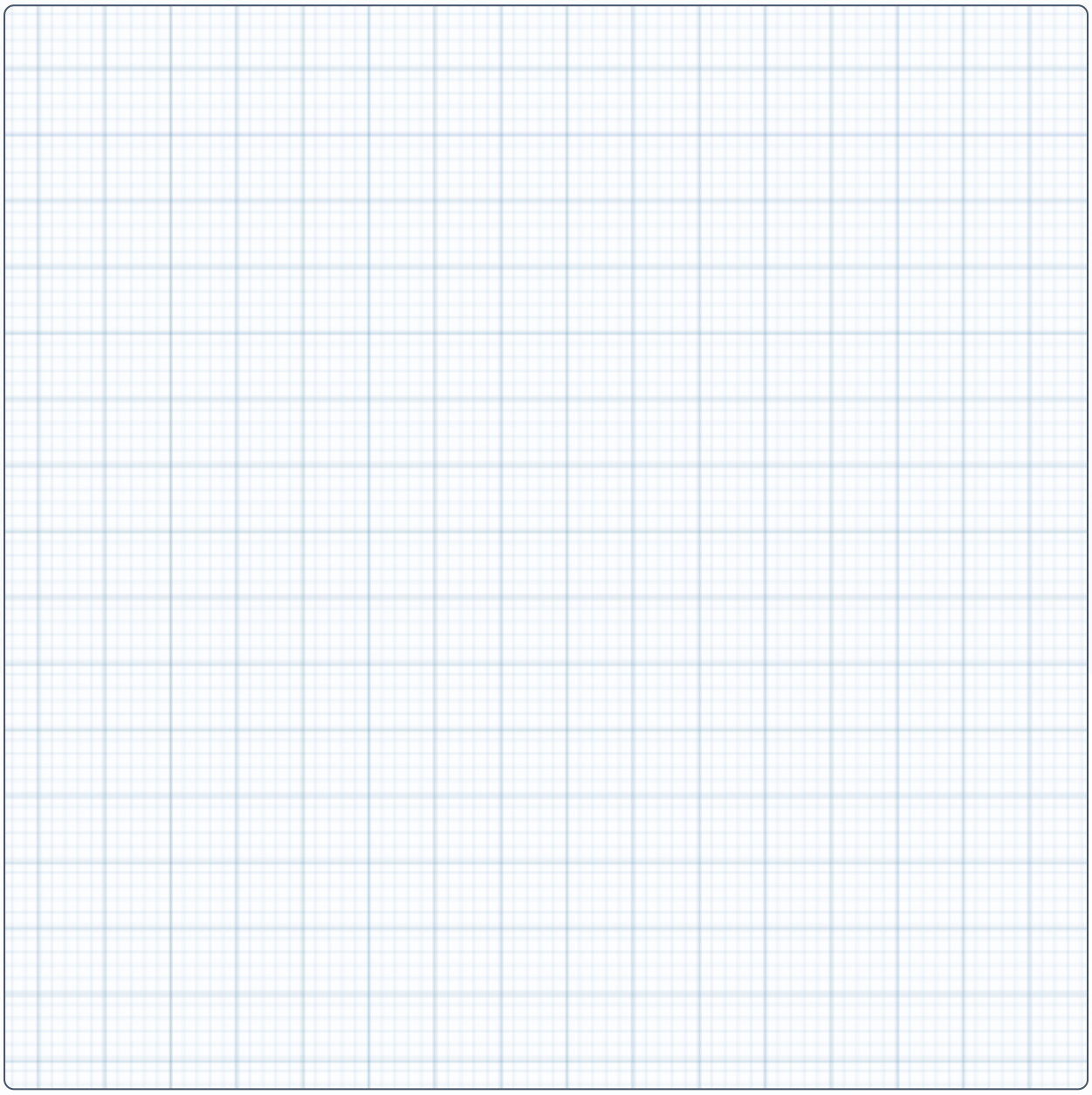
Turn your raw numbers into a table and a graph so the pattern jumps out. Use a **line graph** for continuous data like length (a bar graph is for separate categories).

> A good graph has titled axes, units, an even scale, plotted points, and a line joining them.

1. Record your results in this clear, titled table.

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

2. Draw a **line graph** of your results. Put what you *changed* (foil length) on the bottom axis and what you *measured* (brightness) up the side. Title both axes and use an even scale.



Evaluate your investigation

A graph isn't the end — scientists **evaluate**: did it work, and was it fair?

Evaluate your investigation.

Evaluation question	My answer
Did my result match my prediction?	
Was the test fair? What slipped?	
One change to make it fairer or clearer	

Exit ticket: name one way to make the investigation fairer next time, and explain *why* it would help.