

W3L2 | Calculation relay — without a race

Wednesday | 09:30–10:10 | Explore | Supported route

Name: _____ Date: _____

Core first. Your teacher will select the questions that fit this lesson. Write, speak, point or dictate your own words. Keep your first attempt so you can improve it.

Your scaffold: 1. Name the missing value. 2. Match the units. 3. Choose $M = I \div A$, $I = M \times A$ or $A = I \div M$. 4. Show each line of working.

Work together

Work alone or in a pair. One person chooses the relationship; the other checks the units. Swap for the next item.

1. **A. Image = 20 mm; actual = 0.1 mm. Calculate magnification.**

2. **B. Image = 50 mm; actual = 0.5 mm. Calculate magnification.**

W3L2 | Continue and improve

Supported route | Use after the core questions when directed

3. **C. Magnification = $\times 400$; actual = 0.05 mm. Calculate image size.**

4. **D. Image = 30 mm; magnification = $\times 600$. Calculate actual size.**

5. **E. Image = 25 mm; actual = 50 μm . Calculate magnification.**

6. **F. Put nm, μm and mm in order from smallest unit to largest.**

Optional transfer

What happens to M if only the printed image length doubles?

Build your response: Point to the evidence. Name the science idea. Link them using “because”. Ask for a visual cue before asking for a worked answer.

Improve the same work

One correction I made, and why:

My request for next time: _____