

W3L1 | Lens detective

Monday | 09:30–10:10 | Introduce | Editable pupil sheet

Name: _____ Date: _____

Core first. Write, speak, point or dictate your own words. Keep the first attempt so you can improve it.

Optional support: Total magnification = eyepiece $\times$ objective. A bigger image is not always a clearer image. Describe what you can see before you explain it.

Work together

Choose $\times 4$ then $\times 40$ objectives with a $\times 10$ eyepiece. Predict the total each time.

1. A $\times 10$ eyepiece is used with $\times 4$, $\times 10$ and $\times 40$ objectives. Calculate the three totals.

2. A blurred image is enlarged. Does it necessarily show two close dots more clearly? Explain.

W3L1 | Continue and improve

Use after the core questions when directed

3. **Record your route: real microscope / digital model. Give one observation and one thing this route cannot establish.**

Optional transfer

Why must the specimen be centred before increasing magnification?

Depth: name an assumption or limit, then say what evidence would strengthen your answer.

Improve the same work

One correction I made, and why:

My request for next time: _____