

W3L1 | Lens detective

Monday | 09:30–10:10 | Introduce | Depth 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.

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

Depth route | 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.**

Transfer challenge

Why must the specimen be centred before increasing magnification?

Go deeper: State a limitation, assumption or condition in your explanation. Say what extra evidence would make it stronger.

Improve the same work

One correction I made, and why:

My request for next time: _____