

What does a plant need?

Plan a fair comparison and separate observation from explanation.



A green seedling with visible roots in a glass of water beside a microscope. · AI-generated illustration

Green plants use light energy to build energy-rich substances from water and carbon dioxide. A comparison becomes more informative when we change one condition while keeping the others the same.

Now try it

1. Plan a comparison of two similar plants under different lighting. Keep water, temperature and observation time as similar as possible.
2. Create a table for daily observations. Record measurements separately from assumptions.

Fictional demo material. Adapt to the learners and the school's teaching before use.

biology · v1 · Prepared demo translation

Your notes and findings

Think it through

Why should both plants receive the same amount of water?

See a suggested answer

Otherwise a difference might be caused by water rather than light. Keeping conditions the same helps investigate the effect of light.

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