

Sun vs. Shade Observation

BIOL2 · 2022 · Public archival edition

DIRECT OBSERVATION

CANDIDATE HYPOTHESIS

NOT CONFIRMATION

Archival note (2026)

This short exercise is included because it cleanly separates an observed difference in leaf coloration from a proposed biological explanation. The explanation is a hypothesis generated from the observation, not a finding established by the exercise.

Original submission text

Sun VS Shade Observations

I went to look at my pomegranate shrub that I'm trying to grow into a tree-like structure. I noticed that the leaves on direct are lighter than the leaves that are in the shade. The leaves in the shade are almost a very dark green, while the sun leaves are almost yellowish. I think that the leaves without direct sunlight are darker because they have a higher concentration of palisade cells, allowing for more light to be absorbed while not getting direct sunlight.