

All Green and Fuzzy Lab

Objectives

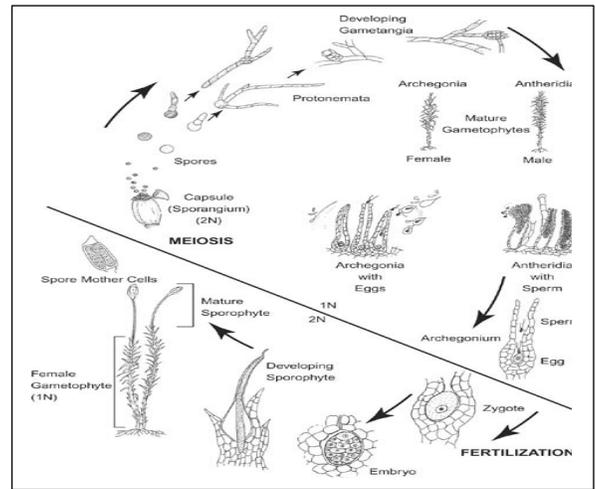
- To review the scientific method
- To gain exposure to curricular competencies

Question: Does moss care where it grows?

Challenge

It has been observed (by nerdy teachers) that moss will grow mostly on one side of a tree.

- Is this the case?
- Why is this so?
- How can we explain this scientifically?
- What procedures should be carried out to effectively determine whether this is true or not.
- Can we, as scientists, determine whether there is a definite growth distribution pattern scene in moss in Riverdale.



You will complete this investigation by developing an effective procedure, carrying out the mission, draw conclusions from your findings and present them in traditional lab format.

You will also be expected to develop a marking scheme (with lots of help from me) using the curricular competencies spreadsheet.

- Read through all the competencies
- Determine which ones fit this lab the best (AKA: which skills will I need to use in order to effectively complete this lab investigation?)
- Create a table that shows a 1-4 marking scheme that evaluates each competency....as seen in a mini example below:

Competency	NYM (1)	Approaching (2)	Meeting (3)	Exceeding (4)
• Formulate multiple hypotheses and predict multiple outcomes				
• Collaboratively and individually plan, select, and use appropriate investigation methods, including field work and lab experiments, to collect reliable data (qualitative and quantitative)				
• Construct, analyze, and interpret graphs (including interpolation and extrapolation), models, and/or diagrams				

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