Plant Evolution Essay Rubric

Edited

TOC#4

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|  | 🞎 Title  |  |
| **¶1** | Introduction | ☐ Introduce paper☐ Phylogenetic treeplantkingdom.gif | ☐ Characteristics of plants1.Chloroplasts2.Cell wall 3.Photosynthesis ☐ Connection to the rest of the food web  |
| **¶2** | Charophytes | ☐ Identify as green algae☐ Not True plants ☐Ancestral Plants ☐ Live in water Unless as lichen | ☐Non Vascular ☐Effect on shape: Long and Skinny to promote osmosis ☐ Spirogyra  |
| **¶3** | Bryophytes | ☐ Identify as moss ☐ Live on land☐ Non Vascular ☐Effect on shape☐ Phylid not Leaf, Rhizoid Not Root - Why?☐ How do they hold onto water?  | ☐ NO Seed (spore instead) ☐ Do they rely on water for reproduction? (Yes, why?) |
| **¶4** | Adapt 2 Land | Adaptation to Land:🞎 Major problem they need to deal with on land🞎 Hold Water- Stomata + Cuticle | 🞎 Move Water- Vascular Tissue (Xylem/Phloem) + Transpiration  |
| **¶5** | Pterophytes | ☐ Identify as Ferns☐ Live on land☐ Vascular ☐Effect on shape:  | ☐ NO Seed (spore instead) ☐ Sori ☐ Do they rely on water for reproduction?  |
| **¶6** | Gymnosperms | ☐ Identify as Conifers/Pine trees☐ Live on land☐ Vascular ☐Effect on shape: Can grow REALLY tall☐Why? They have AMAZING VASCULARITY☐ How do they move water☐ Xylem for water☐ Phloem for food  | ☐ Seed ☐ Do they rely on water for reproduction? (No: Can live farther from water)☐ In cone☐ Connect Cone to Flower  |
| **¶7** | Angiosperms | ☐ Identify as Flowering Plants☐ Live on land☐ Vascular ☐Effect on shape: Can grow tall ☐ How do they move water☐ Xylem for water☐ Phloem for food  | ☐ Seed ☐ Do they rely on water for reproduction? (No: Can live farther from water)☐ Flower☐ Why are flowers pretty?  |
| **¶8** | Conclusion | ☐ Explain what evolution is, why and how organisms do it. ☐ Conclude about the evolution of plants ☐ A slow process = Takes many/small steps ☐ Define and include: **Derived, Ancestral, Evolution, Adaptation, Natural Selection**  |
| **End** | Bib | ☐ Used 2 references☐ Cited in text ☐ Organized into bibliography at the end of paper |
| **Score** | \_\_\_\_\_/\_\_\_\_\_\_ |