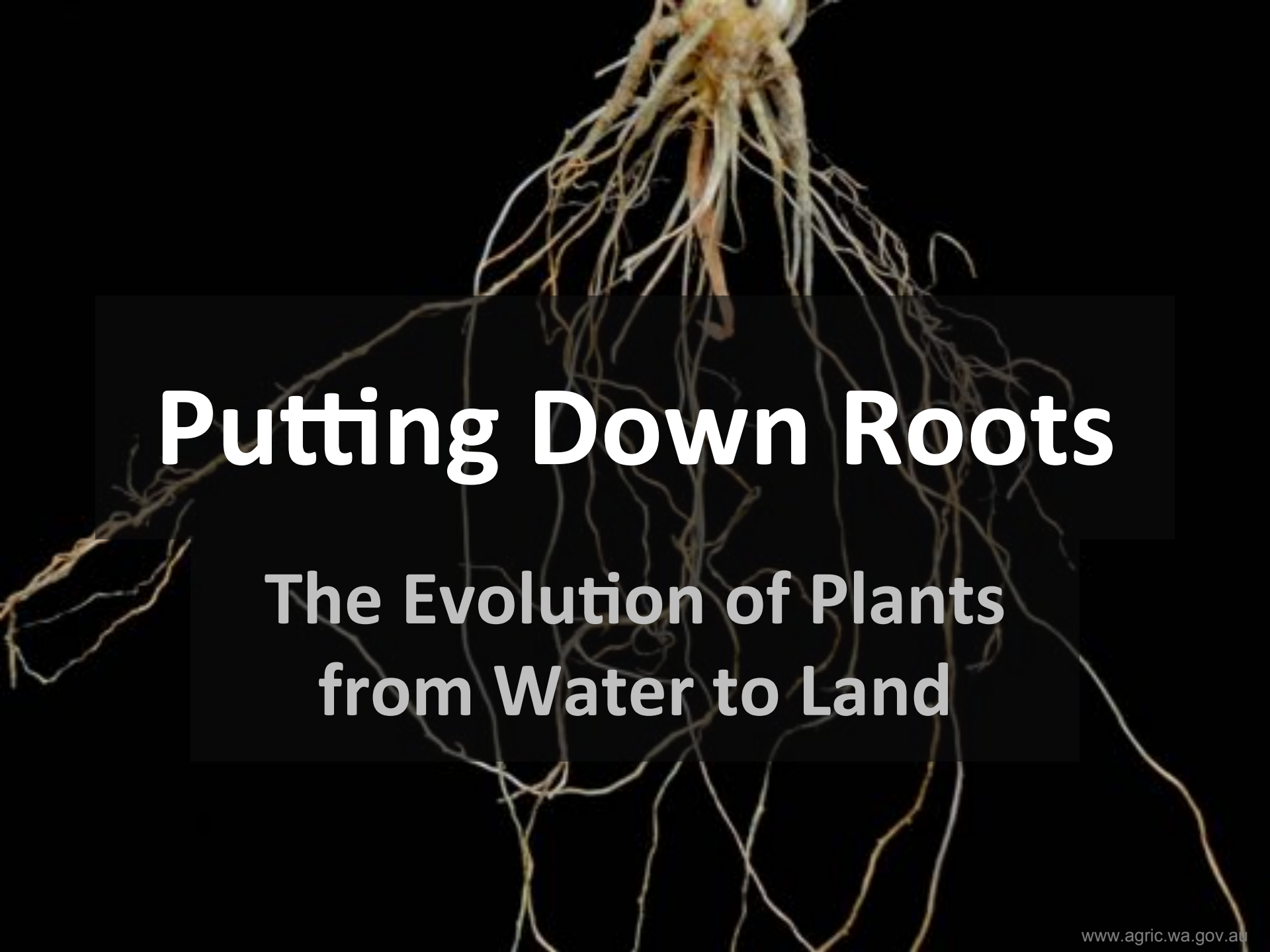




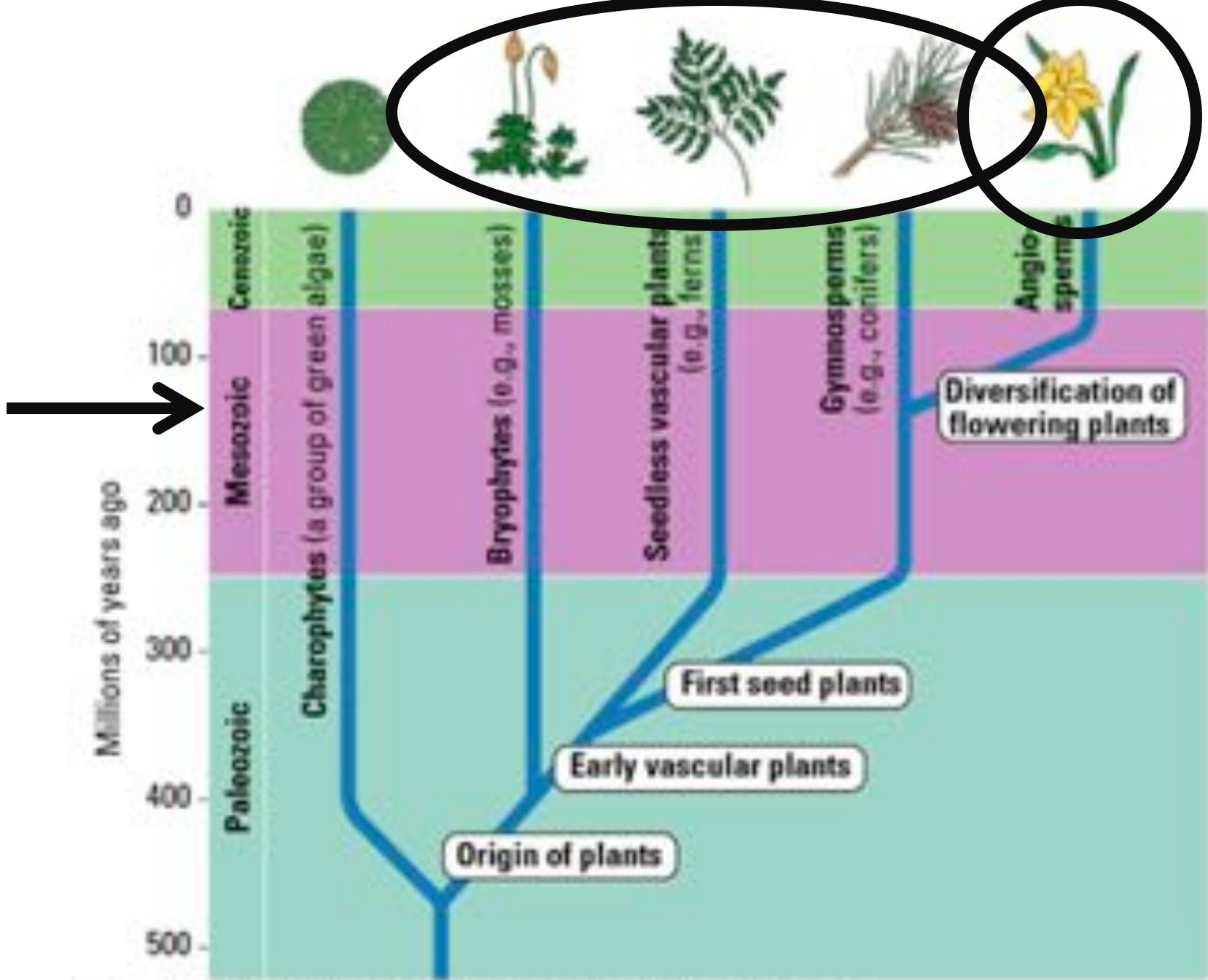
Putting Down Roots

The Evolution of Plants
from Water to Land









Earth – 1 billion years ago



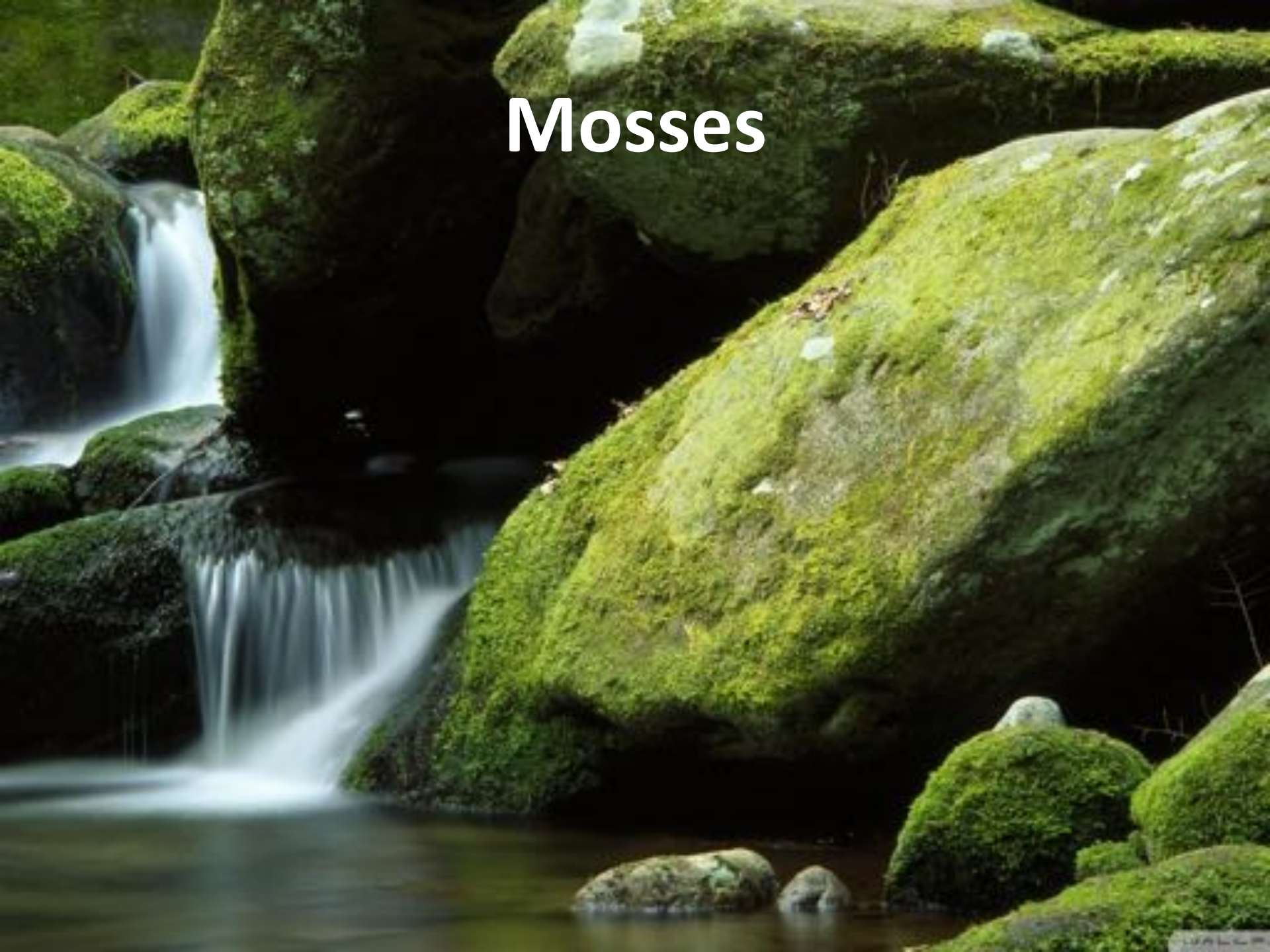


What do you think the first land plants looked like?

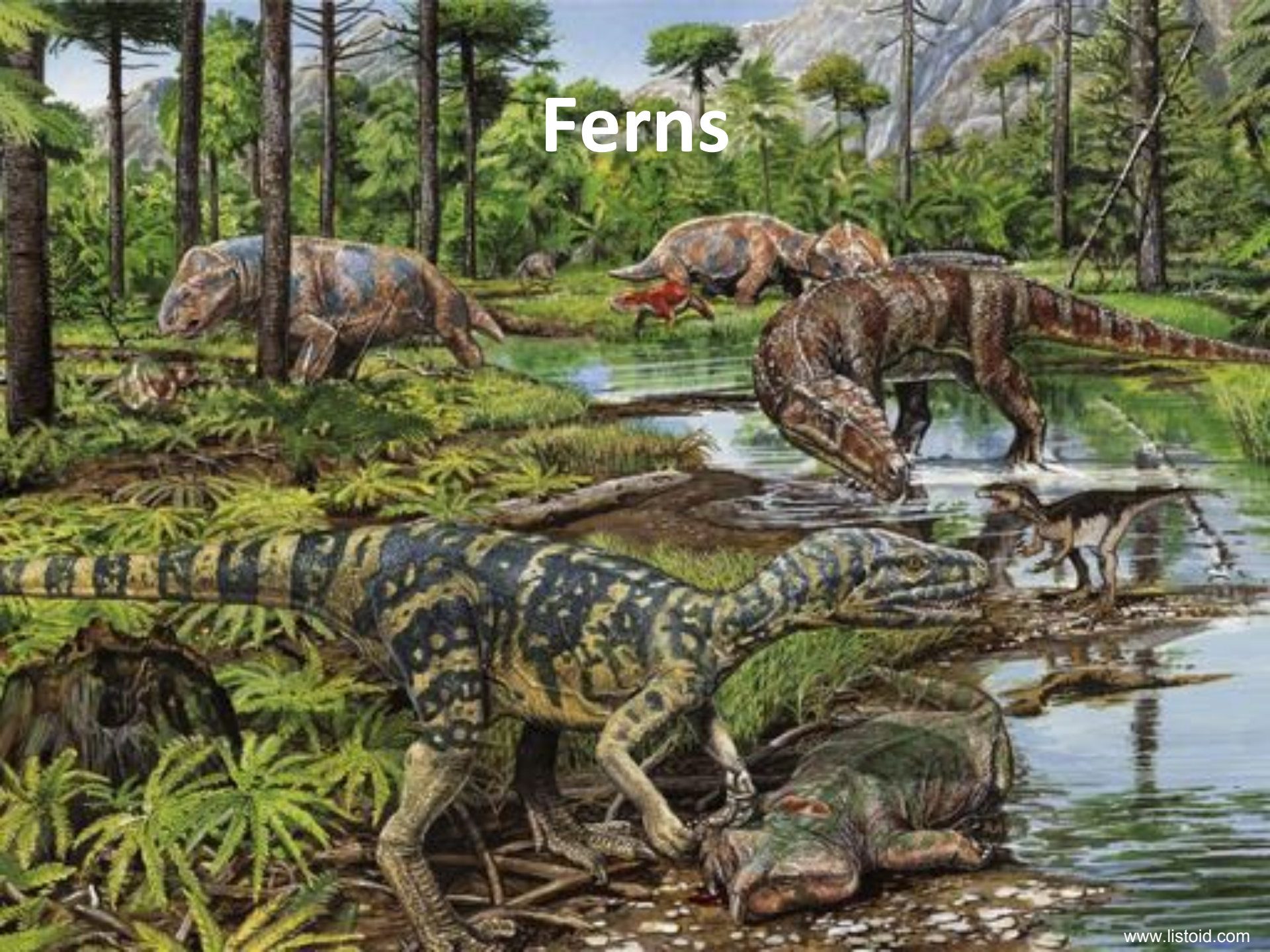
Take a few minutes to draw your idea!



Mosses



Ferns







Gymnosperms



Angiosperms

www.naturesedgegardencenter.com









Challenge

- Examine the following plant samples and determine what group belong to:
 - Mosses
 - Ferns
 - Gymnosperms (like pine trees)
 - Angiosperms (with flowers/fruit)

Resources for Teachers

For Teachers

- Provide students (in groups or as a class) with:
 - A number of hands-on plant samples
 - The knowledge that the samples belong to one of 4 different groups of plants
- Have students try to group samples before going through intro material
- Have students go back and group samples after you finish going through intro material

For Teachers: Example Samples

- Easy to identify:
 - Pine cones, spruce/pine needles, any common fruits or vegetables, flowers, mosses, common ferns
- Harder to identify:
 - Grasses (angiosperms), ginkgo leaves/seeds (gymnosperms), cycads (gymnosperms)

Grasses



Cycad



Ginkgo

