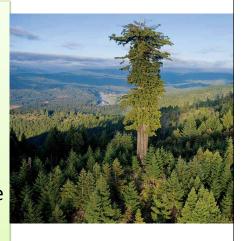


How are they like Ferns?

1. Land Plants

2. Vascular

- Xylem and Phloem
- But now the vascular tissue has evolved to awesome new levels to let conifers become the tallest plants



Where do they live?

On Land – and rocks at it!

- 3rd plants to make it to land
 - By far the best at living on land
 - Can handle arid (dry) areas
 - Awesome vascular tissue to transport water over great distances
 - No longer need water for reproduction because they have

SEEDS!



How do Conifers Reproduce?

- SEEDS!
 - The first seeds have evolved
 - Since they are the first they are more simplistic (less derived, AKA ancestral)
 - Naked seeds
 - In fact: "Gymnosperm" Means Naked Seeds
 - The ovule/seed is produced on a leaf-like structure and is unprotected, or naked
 - Use a **cone** to protect their seed instead



Pollen

-Structure

- 1. Air bags to float
- 2. Cell
- 3. Long tube to spread genetics into the flower

-Function:

- Move through air
- Distribute male DNA
- Improved genetic diversity

Cone to Flower



Strobolus

- Protect the seed
- Help distribute it
- Attract pollinators
 - Diversify genetics = healthier

Vascular

What does that mean?They CAN move water



- How does this affect their shape?
 - No longer constrained to have maximum SA for Osmosis
- AMAZING Vascular Tissue
 - –Allows: Them to grow so tall
 - –How do they deal with the pressure?
 - Wood/cellulose around tubes
 - Why: stop them from collapsing