**Angiosperm - Flowering Plant Notes**

**How are they like Conifers?**
1. Land Plants
2. Vascular
   - Xylem and Phloem
   • Seeds

**Where do they live?**
On Land
• 4th plants to make it to land
  – Can handle arid (dry) areas
  – Vascular tissue to transport water
  – No longer need water for reproduction because they have SEEDS!
  – In fact – Their entire reproduction is geared to dry land

**How do Flowering Plants Reproduce?**

<table>
<thead>
<tr>
<th>1 – Seeds</th>
<th>2 – Flowers</th>
<th>3 – Fruits</th>
</tr>
</thead>
<tbody>
<tr>
<td>The 2nd to evolve seeds</td>
<td>To Attract Pollinator</td>
<td>To move the baby far away from mom so they aren't in competition</td>
</tr>
<tr>
<td>Derived: Seed coat to protect the baby plant</td>
<td></td>
<td></td>
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</tbody>
</table>

**Why Attract Pollinators?**
• Get better genetics:
  – More diverse genes = healthier and better to evolve.

**How do flowers attract pollinators?**

<table>
<thead>
<tr>
<th>Pretty</th>
<th>Smell Good</th>
<th>UV</th>
<th>Trickery: Look Like Wasp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color red</td>
<td>Bees see UV</td>
<td></td>
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</table>

**Vascular**
• What does that mean? • How does this affect their shape?
  - They CAN move water
  No longer constrained to have maximum SA for Osmosis
  - Don't have to be long/skinny or short/fat
  Can be tall because they can move water