



Name: \_\_\_\_\_


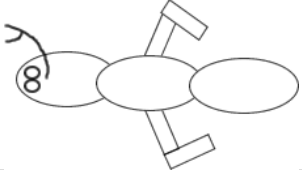

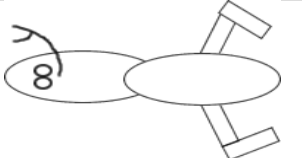

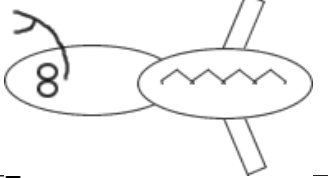
Assigned: Tuesday, March 24

Due: Friday, April 3

4. Use the species' descriptions to determine features that are unique to one insect. These are called **automorphies**. Make your notes in the table below:

Feature (Automorphy)	Unique to this species:

5. Use the times, synapomorphies and automorphies you listed above to determine how to create your cladogram.

Description of Insect Species	Insect Picture
<b>Species 1</b> - Fossils of this species date back to 30,000 years ago. The organism has a single antenna that is branched (like a Y). It has two eyes positioned on top of the head and a non-segmented body.	
<b>Species 2</b> - Fossils of this species date back to 8,000 years ago. This organism has branched antennae, 3 body segments, and the middle segment has fleshy appendages with a bendable joint.	
<b>Species 3</b> - Fossils of this species date back to 25,000 years ago. The organism has a branched antenna, body divided into 2 segments, and eyes positioned on the top of the head. In addition, the last segment of the body has a long curly tail.	
<b>Species 4</b> - Fossils of this species date back to 10,000 years ago. This organism has branched antennae, 2 body segments, eyes positioned on the top of the head, and fleshy appendages on the last segment have a bendable joint.	
<b>Species 5</b> - Fossils of this species date back to 50,000 years ago. The organism has a single antennae, two eyes positioned on top of the head, and a non-segmented body.	
<b>Species 6</b> - Fossils of this species date back to 20,000 years ago. This organism has branched antennae, 2 body segments, eyes positioned on the top of the head, and small flesh appendages on the last segment. This organism also has a ridge of spines on the last segment.	
<b>Species 7</b> - Fossils of this species date back to 31,000 years ago. The organism has a single branched antennae (like a Y) and a club-like structure at the end of the branches of the antennae. It has eyes positioned on the top of its head and a non-segmented body.	