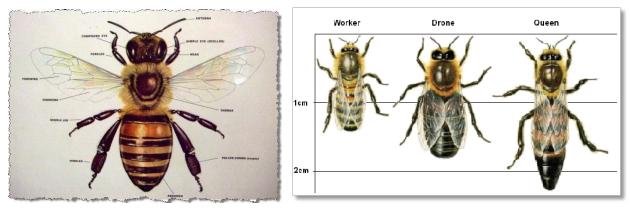
Bee Anatomy & Hive Structure

Objectives (NGSS Standards)

→ HS-LS2-8



(I may take pictures and make diagrams myself but until then, this is what will be used)

<u>Type of Bee</u>	Queen	Drone	Worker
Size	Largest	Medium	Smallest
Amount in Hive	Usually only 1	Anywhere from zero to 200	At least 20,000 to 200,000
Lifespan	2-3 years	Only 21-90 days (shorter lifespan in the spring) usually dies because queen kills him after mating	Only 20-40 days and is literally worked to death
Jobs/Activities	 ♦ Kills other Queens ♦ Mates with males ♦ Lays 1500 eggs/day ▶ 200,000 per year ♦ Secretes a chemical to make sure worker bees never become queens 	Only "job" is to mate with the Queen	 Make comb Tend larvae Tend young drones Tend queen Clean hive Gather nectar Gather pollen Evaporate nectar Cap cells Defend hive Starve drones



	 Lay drone eggs Move larvae for making new queen
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Activities

- ★ Construct a 3D model of bees (groups of 3)
 - Materials:
 - Marshmallows
 - Pretzels
 - Chips
 - Mini reese's
 - M&M's
 - Posterboard
 - Sharpie
 - Requirements
 - Eyes
 - Stinger (only on females)
 - Head
 - Thorax
 - Abdomen
 - Antennae
 - 6 legs
 - Pollen basket
 - labels
- ★ Cheeto pollination
 - Paint on flowers to small boxes
 - Fill some with cheetos and others without
 - Put one box on each student's desk
 - Hand students the cheeto pollination handout
 - Explain directions to students

