

# CEPHALOPODS

What are cephalopods?



# CEPHALOPODS

- Mollusks - soft bodied organisms with bilateral symmetry that are composed of a head, foot and a coiled visceral mass



Gastropods



Bivalves



Cephalopods

# CEPHALOPODS

- Cephalopods - mollusks characterized by bilateral body symmetry, a prominent head and a set of arms or tentacles
  - Cephalopods meaning “head-foot”
  - Excellent swimmers by means of jet propulsion







Squid





Nautilus



Cuttlefish





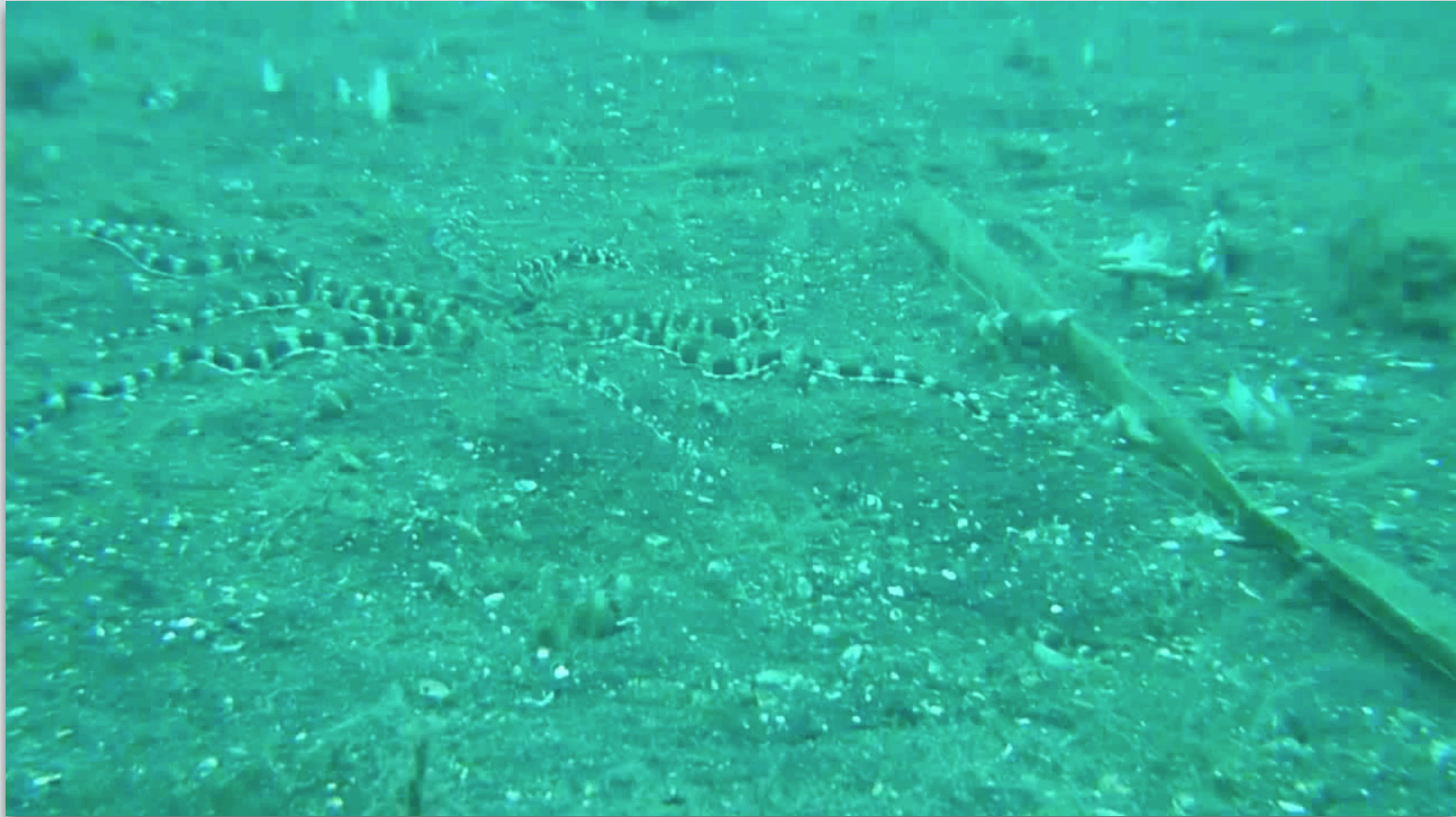
Octopus



# CEPHALOPODS

- Cephalopods have no shell they have adapted by using speed and camouflage
  - Special pigmented cells called chromatophores expand and contract causing changes in color and pattern





Camouflage



# CEPHALOPODS

- Cephalopod Characteristics:
  - Highly developed brain and eyes that have the ability to solve problems and overcome most obstacles







Octopus Intelligence

# CEPHALOPODS

- Cephalopod Feeding:
  - Fish and crustaceans are its main food source
  - Captures prey with tentacles
  - Kills prey by biting with its parrot like beak
  - The octopus injects their prey with venom as well as using its beak to kill and eat prey

# CEPHALOPODS

- Cephalopod Reproduction:
  - Separate sexes that breed in shallow water (except nautilus)
  - Male delivers a sperm packet to the female using a tentacle to place it in her mantle cavity







Octopus Reproduction

# CEPHALOPODS

- Cephalopod Reproduction: (continued)
  - Squid deposit clusters of eggs
  - Most squid die after mating





# CEPHALOPODS

- Cephalopod Reproduction: (continued)
  - Octopus lays 1000s of eggs and protects them for up to 4 months
  - They usually die after the eggs hatch from starvation because they have not eaten during the entire incubation period

