

## What gives the intestine its color?

- The color of the intestine comes from the food it eats. If it eats algae its intestine will be green. If it eats yeast its intestine will be brown.

## Function of the heart?

- To LOVE!
- The function of the *Daphnia's* heart is to circulate blood through the *Daphnia's* body.
- The *Daphnia* has an open circulatory system: no blood vessels. The heart “sloshes” blood around the body.

## What's in the brood chamber?

- The brood chamber holds the eggs and the young *Daphnia*.

## Compare the *Daphnia* eye to a human eye.

- The *Daphnia's* eye is compound whereas the human eye is simple. This means the *Daphnia's* eye is made of many lenses, but the human eye only has one lens. Also, *Daphnia* only have one eye and humans have two. Finally, the *Daphnia* eye has a great range of movement compared to the human eye.

## Function of the antennae?

- The *Daphnia's* antennae serve several functions. First, the antennae are used to sense the environment. Second, the antennae are used to help the *Daphnia* move.

## Function of the bristles?

- The function of the bristles on the legs is to capture food. *Daphnia* feed by filtering algae and other microorganisms from the food. The bristles collect this food and move it towards the *Daphnia's* mouth for consumption.

## Matching

Structure	Function
1. <u>C</u> Intestine	a. Sends blood throughout the body.
2. <u>A</u> Heart	b. Act as filters to remove algae and other microorganisms from the water.
3. <u>F</u> Brood Chamber	c. Digests food.
4. <u>D</u> Compound Eye	d. Allows the organism to see.
5. <u>E</u> Antennae	e. Sense the environment and function in movement.
6. <u>B</u> Bristles (on legs)	f. Holds the eggs

## Question 7

- Daphnia and crustaceans have the following in common:
  - Have an exoskeleton (external skeleton)
  - Gills for gas exchange
  - Two pair of antennae
  - Numerous jointed appendages (5+ pairs of legs)