**“Invertebrates, Sponges, and Cnidarians”**

**Assignment on CK-12**

**Read – Answer questions – Complete Practice Questions**

**Invertebrate Characteristics**

**Read:**

1. Describe a sea cucumber.
2. What do a sponge and a tarantula have in common?
3. Explain the difference between an incomplete digestive system and a complete digestive system.
4. List 3 ways invertebrates can move.
5. What is a nerve net?
6. List AND describe 2 ways invertebrates reproduce asexually.

**Video:**

1. Name the 6 groups of invertebrates.
2. Give one fact about each group.
3. What are the 4 groups of arthropods?

**Sponges**

**Read:**

1. How long have sponges existed?
2. What phylum do sponges belong to?
3. How many species of sponges are there?
4. What does “sessile” mean?
5. What are spicules?
6. What is spongin?
7. How do sponges eat?
8. What are choanocyte cells?
9. What other species do sponges have symbiotic relationships with?

**Video:**

1. How high is the underwater mountain she mentions?
2. Belt of sponges - at 300 ft - What do they NOT need?
3. About how many meters of water could 1 cubic centimeter of sponges filter in one day?
4. What’s another name for “marine snow” sponges eat?
5. About how big is the elephant ear sponge?

 **Cnidarians**

**Read:**

1. What phylum do sea anemone belong to?
2. What does a sea anemone eat?
3. How many species of cnidarians are there?
4. List at least four examples of cnidarians.
5. What is one thing all cnidarians have in common?
6. What is a nematocyst?
7. What are the two body plans in cnidarians?
8. Name 3 sensory structures cnidarians have?
9. What type of relationship do coral have with algae?
10. How is a coral reef made?
11. Are jellyfish herbivores, carnivores, or omnivores?
	1. What do they eat?
12. How long can a jellyfish be?

 **Video:**

1. Do jellyfish have a brain?
2. What does Steven Haddock call gelatinous zooplankton?
3. About how many species are there in Monterrey Bay?
4. A siphonophore is a cousin to what?
5. About how many species are being grown in the Lab?
6. A gene extracted from the crystal jelly become so vital that it helped two scientists win an important prize in 2008……what prize did they win?

**Complete the CK-12 “Practice Questions” for all three topics… Invertebrates, Sponges, and Cnidarians**