



High School Science Virtual Learning

Biology Cnidaria

May 7, 2020



High School General Biology

Lesson: May 7, 2020

Objective/Learning Target:

Students will be able to identify and discuss the key characteristics about Cnidarians.

Let's Get Started:

1. List the taxonomic levels from most general to most specific.
2. Using the information to the right, what type of symmetry do people have? What about jellyfish?

Types of Body Symmetry

- **Asymmetrical** - animals have no particular symmetry.
- **Radial symmetry** - means the animal is organized similar to a wheel. Any longitudinal cut will give off in an equal half.
- **Bilateral symmetry** - means the animal has definite right and left halves.

Let's Get Started: Answer Key

1. Domain, kingdom, phylum, class order, family, genus, species.
2. Bilateral Symmetry; Radial Symmetry

Lesson Activity:

Directions:

Watch these videos and take notes over the cnidarians. You can use the notes for the practice questions.

Video 1: [Crash Course- Simple Animals](#)- (watch from 2:37-3:46)

Video 2: [MooMoo Math and Science- Phylum Cnidaria](#)

Practice

Complete the following questions using the information you learned during the lesson activity.

Questions:

1. How many germ layers do cnidarians have? What are they?
2. List all of the organs a cnidarian has.
3. What is a cnidocyst?
4. What type of symmetry do cnidarians have?
5. List examples of cnidarians.

Questions:

6. What are the two types of cnidarians?
7. How do cnidarians move?
8. What kind of nervous system do cnidarians have?
9. How can they reproduce?

Once you have completed the practice questions check with the **answer** key.

1. 2 germ layers; endoderm and ectoderm
2. None. Cnidarians do not have any organs
3. Stinging cell
4. Radial symmetry
5. Jellyfish, cnidarians, corals, sea anemones
6. Medusa and polyp
7. Jet propulsion inside their bell (jellyfish) or wiggle with base (sea anemone)
8. Nerve net
9. Both sexually and asexually



Common Misconceptions

This [article](#) from the National Oceanic and Atmospheric Administration (NOAA) addresses some of the most common misconceptions about jellyfish.

More Practice:

- Read the information about cnidarians provided by [Exploring Our Fluid Earth](#) and answer [these questions](#).
- Watch this video about [how jellyfish sting](#) from Smithsonian and make either a comic strip or flip book showing how a nematocyst works.
- Test your knowledge with this [Cnidaria Quizizz](#).

Additional Resources:

Read more about [Phylum Cnidaria](#) from Lumen and answer the questions at the bottom of the page.

Explore this [virtual lab](#) to see how cnidarian feeding types compare to other animals in the ecosystem.

Here is a [virtual dissection](#) of a jellyfish and sea anemone you can watch.