Name:­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Phylum Digestive System Worksheet**

Multiple Choice

Why is the bull shark or *Carcharhinus leucas* the deadliest shark in the world?

1. It is the biggest.
2. It is more adapted to cold temperatures.
3. It is the most aggressive and can survive in salt or fresh water.
4. None of the above.

How many times does a walrus fill its stomach daily?

1. Twice
2. Five or more times
3. About three or four
4. Once

The mouth of a walrus when consuming food is most similar to a:

1. Rake
2. Shovel
3. Spoon
4. Vacuum

What phylum does the bald eagle belong to?

1. Porifera
2. Arthropoda
3. Chordata
4. Mollusca

What is the name of the area around a sea urchin’s mouth and anus area called?

1. The sac
2. The lantern
3. The pineapple house
4. It doesn’t have a name

Who invented the name for the area around a sea urchin’s mouth and anus?

1. Albert Einstein
2. Charles Darwin
3. It doesn’t have a name
4. Aristotle

How many modes of feeding are there in sea urchins?

1. One
2. Two
3. Three
4. None of these answers are correct

In starfish where is the mouth located?

1. In the center on the underside
2. In the center on its upper surface
3. It has multiple mouths each at the end of an extremity
4. It doesn’t have a mouth

What are poriferans often called?

1. Sharks
2. Plants
3. Sponges
4. Both B and C

The anterior portion of the stomach of slugs opens into a(n) .

1. rectum
2. coiled intestine
3. anus
4. radula

In octopuses, food goes to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (or digestive gland), for absorption.

1. rectum
2. intestine
3. stomach
4. liver

The digestive system of a centipede is held in:

1. The head
2. The abdomen
3. The legs
4. The circulatory system

The waste products of a jellyfish leave through the:

1. Anus
2. Mouth
3. Head
4. Legs

Jellyfish are:

1. Carnivores
2. Herbivores
3. Omnivores
4. All of the above

Nematocysts usually \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the prey of a jellyfish.

1. Kill
2. Help
3. Eat
4. Play with

Sea Anemones are:

1. Predators
2. Producers
3. Herbivores
4. None of the above

Corals feed on:

1. Other corals
2. Large fish
3. Crabs
4. None of the above

When food enters the stomach cavity of a sea anemone \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ breaks it down.

1. Enzymes
2. Mucus
3. Tentacles
4. All of the above

Fill in the Blank

Most sharks swallow their food whole or bite it into relatively large pieces using their multiple rows of teeth that angle in for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ their prey.

Although the intestines of a bull shark are short, they have a large surface area due to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the inner surface of the intestines.

Walruses use their highly sensitive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to locate prey along with their very good \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The ­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separates birds from many animals because it is an organ that is exclusive to these animals.

In sea urchins, the small \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ runs in a full circle around the inside of the test, before joining the large \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which completes another circle in the opposite direction.

In a sea cucumber, a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ lies behind the mouth and is surrounded by a ring of ten calcareous plates.

In sea cucumbers, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is typically long and coiled, and loops through the body three times before terminating in a \_\_\_\_\_\_\_\_\_\_\_\_\_ chamber, or directly at the anus.

In starfish, food can be brought into the stomach through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or, in many species, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be extended out through the mouth to digest food outside the body.

Instead of mouths, sponges have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The flow of water through a sponge is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

A banana slug is part of the\_\_\_\_\_\_\_\_\_\_\_\_\_\_class.

In slugs and snails, its\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_acts as teeth in the mouth.

In slugs, the anus is located above its\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is found next to the ovaries of an octopus.

Trematodes are commonly known as\_\_\_\_\_\_\_\_\_\_\_\_\_.

The epidermis of a trematode is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Tapeworms belong to a branch of the Platyhelminthes known as the\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Platyhelmithes is Latin for “\_\_\_\_\_\_\_\_\_.”

The mouth of the nereis is located on the\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

In some species of nereis, the pharynx is modified into a lengthy\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Leeches are worms that belong to the phylum Annelida and comprise the subclass\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Possibly as an adaptation, the leech’s digestive process is very\_\_\_\_\_\_\_\_\_\_.

The digestive system of earthworms consists of the pharynx, the esophagus, the crop, the intestine and the\_\_\_\_\_\_\_\_\_\_\_\_.

In earthworms, the eaten soil passes through the \_\_\_\_\_\_\_\_\_\_\_\_.

The intestinal wall of earthworms contain\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ where the digested food is absorbed and transported to the rest of the body.

Spiders are put into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_feeding groups based on their manipulation of prey.

The feeding methods of spiders are based on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of their teeth.

As spiders bite into their prey they can inject it with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that breaks down \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Butterflies feed exclusively on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Butterflies have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that extract \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

After food is digested in a butterfly it is released out of the anus in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form.

The digestive system of a centipede has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ parts.

Most food is digested and absorbed in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a centipede.

Food is released as waste in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a centipede.

Food is stored and broken down in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a centipede.

Short answer

Classify the bull shark from its species to its kingdom.

List some of the marine organisms that walruses feed off of. And which is their favorite.

What is the gizzard’s function?

State the names of the different organs in a bird’s digestive system.

What is the mouth of a sea urchin made up of?

Briefly describe the difference between the two forms of feeding in sea cucumbers.

In starfish how is the digested material absorbed?

What are echinoderms characterized by?

Briefly explain how the digestive system of a sponge works?