

Invertebrates

Unit 5. The enormous diversity of animals.

Invertebrates

Dear students,

Now that you have been researching about this group by yourself, it's time to start studying the group as a whole.

First of all, let's go over the definition of invertebrate.

Select all the correct options:

- Invertebrates have a vertebral column.
- Invertebrates always have bilateral symmetry.
- Invertebrates do not have an internal articulated skeleton.
- Invertebrates have an articulated skeleton.
- Invertebrates are artificially classified into 6 groups.



- Invertebrates have a covering that protects their body.
- Invertebrates do not have a vertebral column.
- Invertebrates are classified into 5 groups. Sometimes invertebrates are not symmetrical.

Poriferans

Click the rectangles to show the options and select the correct one:



- ▶ Poriferans are very _____ animals. They are **sessile** organisms which means that they live attached to other organisms so the are _____ .
- ▶ Regarding their symmetry they are _____ or they have a _____ symmetry.
- ▶ They live in water, so we call them _____ animals, between this group, most of them are marine.

Click the following picture to see a video about filtration in sponges:



Poriferans. Structure and nutrition.

Connect each sentence with the correct answer:

The body of sponges has perforations called

The internal cavity of the poriferans is called

They feed on tiny organisms that they trap as the water circulates around their body, that's why we call them

The upper hole in the poriferans is called

Poriferans received their name due to their

The water goes into the body of the poriferans through the

The water goes out of the poriferans' body through the

The water is moved by some cells called

They have an inner skeleton made up of

Atrium

Pores

Spicules

Pores

Choanocytes

Osculum

Osculum

Filter feeders

Pores



Be careful:

Although the skeleton of the poriferans has been used for personal hygiene (sponges), it's not articulated and they don't have a vertebral column so they are not considered vertebrates.

Cnidarians

Click the rectangles to show the options and select the correct one:

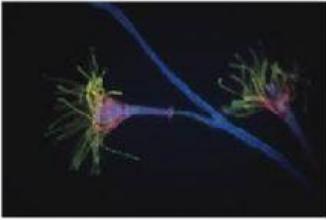
- ▶ Cnidarians are _____ animals which use a _____ to eat.
- ▶ Regarding their symmetry they have a _____ symmetry.
- ▶ They live in water, so we call them _____ animals, between this group, most of them are _____ although some are _____ species which means that they live in rivers, lakes, etc.
- ▶ Their inner cavity connects with the outside through a _____ which is surrounded by _____. It works as _____.
- ▶ They come in two forms _____ and _____.



Cnidarians. Forms.

Drag and drop the following words into the group to the one they belong:

POLYPS



The bodies have the shape of an umbrella

Examples:

Hydrae

Coral

Anemones

Mouth at the bottom (underneath)

JELLYFISH



They live attached to the substrate

Mouth at the top

Cnidarians. Cnidocytes.

Write the correct answer:

The cells found in the tentacles of the cnidarians are called _____ .

They use them to hunt, catching their _____ , when they brush them against their objective.

It releases a _____ substance when it is shot out (disparado). This substance _____ its prey.

Usually the thread is rolled up, but when the cnidocyte is used, the thread is out (salir despedido).

[Click here to see a video.](#)