

**UNIT 5**

**ANIMAL KINGDOM (II):  
INVERTEBRATES, ARTHROPODS**

**ACTIVITIES**

**1. - Complete the sentences with the words in the box.**

segmented	invertebrates	jointed	progressively
moulting	exoskeleton	numerous	external symmetry

Arthropods are \_\_\_\_\_, but they have an \_\_\_\_\_ skeleton made of chitin. They are the most \_\_\_\_\_ and varied of all animals. They have a \_\_\_\_\_ body with \_\_\_\_\_ appendages (legs, antennae, etc.) and bilateral \_\_\_\_\_. Due to the hardness of its \_\_\_\_\_, they can't grow \_\_\_\_\_ and they need to moult. This process is called \_\_\_\_\_.

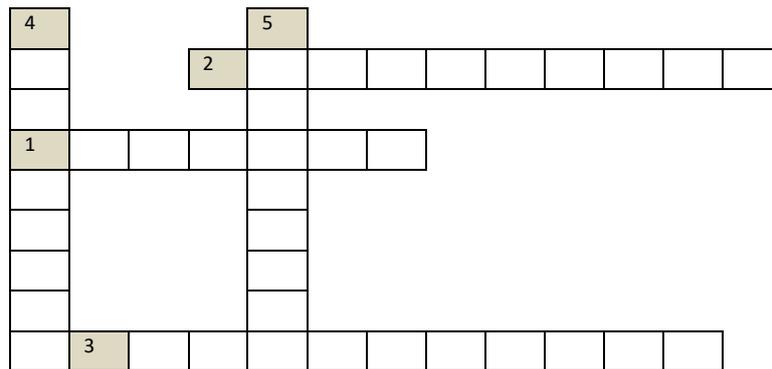
**2. - Tick the sentences with T (true) or F (false) and correct the false ones.**

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| <p>1. There are six classes of arthropods.<br/>.....</p> <p>2. Myriapods is the only group without wings.<br/>.....</p> <p>3. Insects is the only group with 2 antennae.<br/>.....</p> <p>4. Arachnids have three body segments.<br/>.....</p> <p>5. All crustaceans are aquatic animals.<br/>.....</p> | <table border="1" style="margin: 0 auto;"> <tr> <td style="padding: 2px 10px;">T</td> <td style="padding: 2px 10px;">F</td> </tr> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> | T | F |  |  |  |  |  |  |  |  |  |  |
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**3. - Choose the correct answer.**

- a. Butterflies have four big coloured *legs/wings*, so they are insects.
- b. Centipedes have a segmented body with *one/two* pair of legs per segment.
- c. Scorpions, ticks and mites are dangerous *crustaceans/arachnids*.
- d. Wasps and beetles are *insects/myriapods* because they have four wings.
- e. Prawns and shrimps are *insects/crustaceans* although they have not pincers.

**4.- Write the name of each group in the crosswords.**



1. Butterfly
2. Group of invertebrates with exoskeleton
3. Crayfish
4. Millipedes
5. Tick

**5.-  Which group of arthropods do the next animals belong to? Write a sentence justifying your election (use only one characteristic for each animal).**

Crab, mite, centipede, fly, spider, millipede, bee, shrimp, ant, lobster, scolopendra, flea, woodlouse (pill-bug), dragonfly, cockroach, crayfish, cricket.

**6.-  Complete the text with the words in the box about insects development.**

pupa larvae nymph adults hard adults chitin wings  
 moult stages grown primitive no moulting  
 complete moving hatch incomplete change  
 beetles cockroaches bees grasshoppers flies

Insects have a \_\_\_\_\_ exoskeleton made of \_\_\_\_\_. They need to \_\_\_\_\_ and this fact can make them to go through different \_\_\_\_\_.

Some \_\_\_\_\_insects have \_\_\_ metamorphosis, they only have to grow to become \_\_\_\_\_. But another ones need to \_\_\_\_\_ in their last moulting, from \_\_\_\_\_ to adult, as in \_\_\_\_\_ or \_\_\_\_\_ (\_\_\_\_\_ metamorphosis).

A third group of insects \_\_\_\_\_ of eggs as \_\_\_\_\_, completely different from \_\_\_\_\_. These larvae grow by \_\_\_\_\_ and reach the \_\_\_\_\_ stage (without eating and \_\_\_\_\_). From this pupa, \_\_\_\_\_ adults hatch with \_\_\_\_\_ and sexually matures, as in \_\_\_\_\_, \_\_\_\_\_ or \_\_\_\_\_ (\_\_\_\_\_ metamorphosis).