

## Bones and No Bones

How are these animals alike?



All of these animals have bones. The bones are called skeletons. If the animals didn't have skeletons, they would be as saggy as rag dolls. All animals with skeletons are called vertebrates.

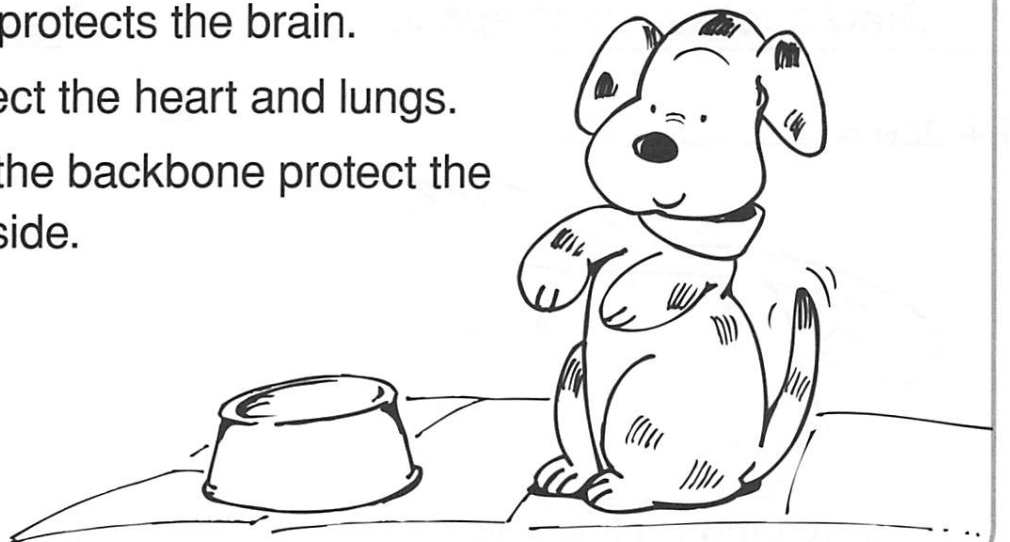
The bones help support the animals.  
Bones help them walk, sit, jump, and stand up.

Some bones protect soft parts of a body.

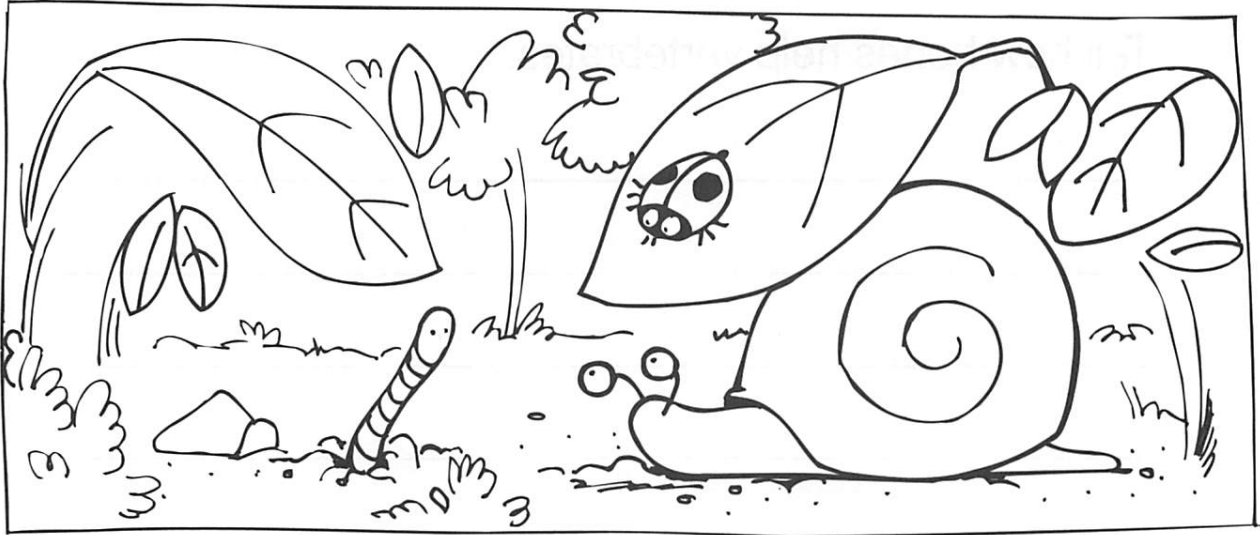
The skull protects the brain.

Ribs protect the heart and lungs.

Bones in the backbone protect the nerves inside.

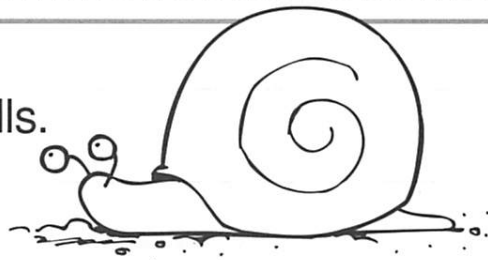


How are these animals alike?

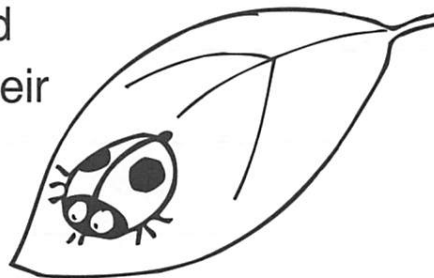


These animals do not have bones. They do not have a skeleton or a backbone. They are called invertebrates.

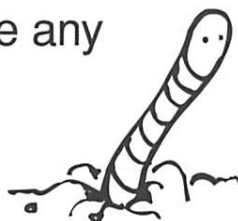
Some invertebrates have shells.



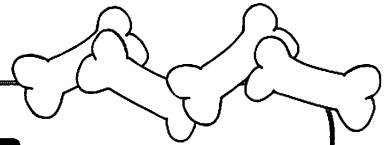
Some invertebrates have hard coverings on the outside of their soft bodies.



Some invertebrates don't have any hard covering at all.



Name \_\_\_\_\_



## Questions about *Bones and No Bones*

1. Tell how bones help vertebrates.

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2. How would you be different if you didn't have any bones?

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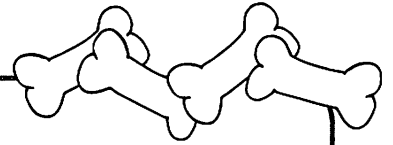
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Name \_\_\_\_\_



## Vocabulary

Match the words and their meanings.

vertebrates •

animals without a backbone

invertebrates •

animals with a skeleton

skull •

head bone

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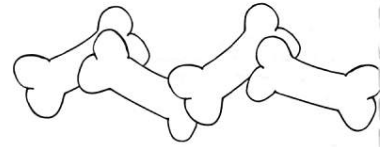
Use the words above to complete these sentences.

1. The \_\_\_\_\_ protects the brain.

2. Fish and chickens are \_\_\_\_\_.

3. Insects and spiders are \_\_\_\_\_.

Name \_\_\_\_\_



## Your Bones

Different bones in the human skeleton have different names. Write the names from the word box next to the special name for each bone.

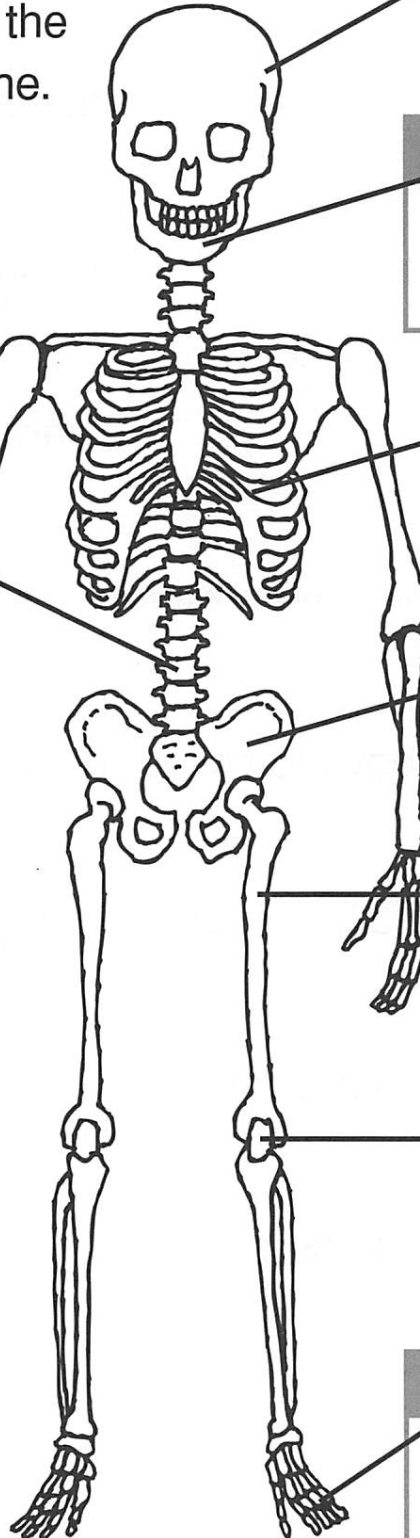
**humerus**  
\_\_\_\_\_

**vertebrae**  
\_\_\_\_\_

**phalanges**  
\_\_\_\_\_

**Word Box**

arm bone	finger bones
hipbone	kneecap
skull	backbones
foot bones	jawbone
ribs	thighbone



**cranium**  
\_\_\_\_\_

**mandible**  
\_\_\_\_\_

**rib cage**  
\_\_\_\_\_

**pelvis**  
\_\_\_\_\_

**femur**  
\_\_\_\_\_

**patella**  
\_\_\_\_\_

**metatarsals**  
\_\_\_\_\_