

Laura McShane

## What is a Skeleton? 35 min

Objective:

Compare animal groups that have exoskeletons - with animals, like humans, that have endoskeletons

Big Idea:

Bodies need structural support

### 1. Warm Up / Anticipatory

Books to feature:

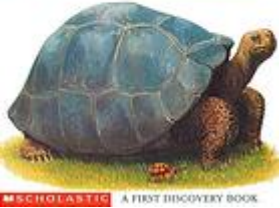
Box Turtle gives a fictional timeline to one turtle. The story starts in 1892.



[Box Turtle](#) - written and illustrated by John Himmelman



## Turtles and Snails



Turtles and Snails - written by Gallimard Jeunesse and Gilbert Houbre, illustrated by Gilbert Houbre

After reading these books - what do you know about turtles and snails? How are they alike? How are they different. What are some questions you have about skeletons? Humans have an endoskeleton - but science is working to address paralysis through exoskeleton technology:

Indego - powered exoskeleton

## Resources

- Indego - powered exoskeleton <https://www.youtube.com/watch?v=SrNFiu8-jz0>

## 2. Investigation and New Learning 20 min

Visit the world's only skeleton museum:

<https://skeletonmuseum.com/exhibits-okc/3/what-is-a-skeleton.htm>

What is a bone?

What is collagen?

What is the difference between a vertebrate and an invertebrate?



What is cartilage?

What is a ligament?

Are teeth bone?

### 3. Review & Check for Understanding 30 min

Pick different animals to research on line - Cleveland Metroparks Zoo and Smithsonian Zoo are some of the possible sites to use:

<https://resourcelibrary.clemetzoo.com/Animal/37>

<https://nationalzoo.si.edu/animals/eastern-box-turtle>