

Amazing Evolution

Scavenger hunt answers



All the diversity that we see among living organisms today is the result of evolution.

Will you be amazed by what evolution can teach us?

Atrium:

The hidden hipbones of whales reveal an amazing relationship. Which group of land animals is most closely related to whales?

Artiodactyla (Hippopotamidae, Hippopotamuses)

Sketch one similarity of human and whale skeletons.

Evolutionary Timeline:

What is your favourite organism?

Answers will vary

Find a distant relative of that organism. What is it?

Answers will vary

When is it shown on the timeline?

Answers will vary

What is the oldest fossil of a land animal?

Centipede-like creature (428 million years ago)

What is your favourite part of the earth's history on the timeline?

Answers will vary

Herbarium:

Sometimes appearances are deceiving. Find the plant whose "flowers are not flowers at all". What is the plant called and what are the "petals" really? **Pacific dogwood. The white "petals" are modified leaves, called bracts (cabinet 30.10)**

What are the real flowers? **The tiny green cluster in the middle of the "flower" are flowers.**

Entomology:

Not all 'bugs' are true bugs. What do all true bugs have that other insects do not?

Special mouthparts

What does this help them do? **Pierce and suck liquids from their foods.**

Fish:

Three-spine sticklebacks might be the newest species of animals in the world. In which Canadian province are they found? **B.C.**

Can you briefly explain why they are so important to evolutionary research? **This is an example of evolution in action - showing species pairs, natural selection, and effects of predation and competition.**

Fossils:

Find a fossil that you have never heard of before. *Sketch it below.*