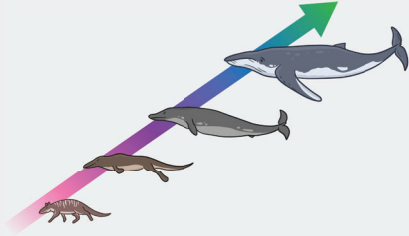


TOPIC: SPECIATION TIME SCALES

Gradual Evolution vs. Punctuated Equilibrium

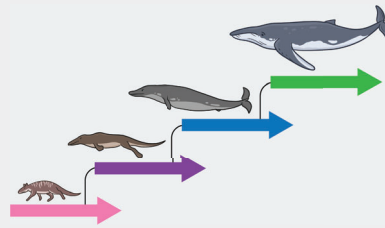
◆ What does speciation look like as a _____ evolutionary process?

- ◆ **Gradual:** slow, relatively _____ change.
 - Many types of _____ forms.



- ◆ **Punctuated Equilibrium:** periods of _____ interrupted by rapid change.

- _____ types of intermediate forms.



PRACTICE

The punctuated equilibrium model was created to address which underlying question about speciation?

- How do two closely related populations living in the same area become separate species?
- Why does there sometimes appear to be sudden changes in fossil morphology within the fossil record?
- How has the rate of speciation changed between geological records and modern organisms?
- How does speciation function as a microevolutionary mechanism?