

# Understanding Evolution: Homology and Analogy

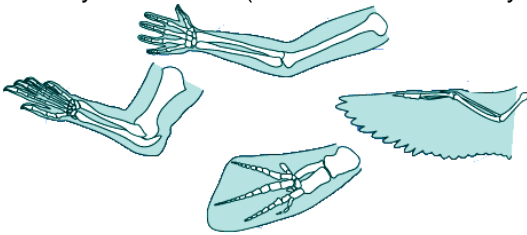
<http://evolution.berkeley.edu/evolibrary/>

Go to "What is the Evidence for Evolution" to Similarities and differences: Understanding homology and analogy

Define homology:

Define analogy:

Identify these limbs (to what animal do they belong)?



How is an evolutionary tree like a family tree?

What are a couple of examples of homologies? Give their common ancestor.

Not all homologous structures look alike. What is an example of this?

Side Trip: "not just anatomy." – What are the four ways something can be a homology?

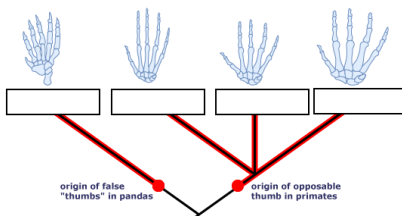
Similar structures that evolved independently are called \_\_\_\_\_.

Describe how two unrelated flowers could evolve to have a similar appearance?

Are similarities between sharks and dolphins homologous or analogous?

Whales share an ancestor with what five other animals?

What three things do scientists consider when trying to decide if something is homologous or analogous?



Fill in the blanks of the primate tree.

Are the "wings" (actually flaps of skin stretched between the legs) of sugar gliders and flying squirrels homologous or analogous structures? Explain why you would conclude this.