# **Evidence for Evolution Webquest**

Directions: Use the links below to research information on the following topics:

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]	/:http	<u>//www.zoomsc</u>	<u>:hool.com/sub</u>	ojects/o	<u>dinosaurs/</u>	<u>dinofossil</u>	<u>ls/Fossilt</u>	ypes.	<u>html</u>

1. What are fossils?	
2. List and describe the four types of fossils.	
(a)	
(c)	
(d)	
http://bioweb.cs.earlham.edu/9-12/evolution/HTML/live.html	
3. Describe how scientists use fossils to show an evolutionary relationship.	

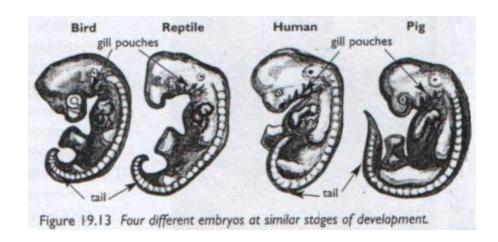
 $\underline{http://geology.about.com/library/bl/images/blfossilindex.htm}$ 

4. Find four pictures of fossils. Copy and paste the pictures onto this document. Be sure to label what each picture is.

### **B.** Embryological Evidence

#### http://www.biology-online.org/dictionary/Embryo

1. What is an embryo? (Use the human biology definition.)



2. Use the image about embryonic develo		s that are seen in the early stages of
(a)	(b)	
http://ne	csi.edu/projects/evolution/evide	ence/embryos/evidence_embryo.html
3. What did the gill	slits in a fish embryo develop i	n to?
4. How do similarit	ies in developing embryos prov	vide evidence of Evolution?

## (C) Anatomical Evidence

### http://www.becomehealthynow.com/article/anatom/703

1. What i	is anatomy?
2. Use "C	Google" to research each of the types of comparative anatomy and write the information below
Hom	nologous Structures:
_	
Anal	logous Structures:
_	
_	
Vest	igial Structures:
_	

3. Find one picture for **EACH** type of anatomical evidence.

### (D) Biochemical Evidence

http://biochemistry.suite101.com/article.cfm/what\_is\_biochemistry

(1) What is biochemistry?			

### http://bioweb.cs.earlham.edu/9-12/evolution/HTML/live.html

(2) List two types of molecules that can be used to show an evolutionary relationship. What is their function
(3) How was it determined that monkeys and cows are more closely related than monkeys and fish?

Organism	Amino Acid Differences	Organism	Amino Acid Differences
Human beta chain	0	Mouse	27
Gorilla	1	Kangaroo	38
Rhesus monkey	8	Chicken	45
Dog	15	Frog	67
Cow	25	Soy bean	124

(4) The table above shows the number of differences in the amino acid sequences of different organisms compared to humans. What is an amino acid? What molecule is built of amino acids?	
(5) According to the table, which organism is most closely related to the human? Which organism is the modistant relative of the human? How do you know?	)Si