Interactive Hair Web Lesson
(From GVL)

Direction: Use the following web site to answer the questions below.

Go to http://www.thegentletouch.com/hairbiol/h-morph1.htm

1. How many hair follicles does a human adult have? Estimated at 5 million
2. How many of those are on the head? 1 million on the head, of which 100,000 alone cover the scalp!
3. What 2 layers of skin make up the follicle? Epidermis and Dermis
4. What active part of the follicle is represented as a “bulb” in the model? Dermal Papilla
5. What are cells? The building blocks we are made up.
6. What does differentiation mean? Different cells that take on different characteristics to better suit them to their specific tasks.
7. What makes the hair shaft grow longer? Epidermal cells dividing rapidly
8. What is the medulla? The central core of the Hair shaft
9. What muscle makes your hair stand on end and causes “goose bumps”? Erector pili
10. List AND describe the 3 main phases of the hair growth cycle.
   a. Anagen
   b. Telogen
   c. Catagen
11. What is melanogenesis? Pigment formation
12. What is the average daily growth rate for hair? 0.35mm
13. How long does the anagen phase last? The longest phase with up to 90% of follicles on a normal human scalp in this active hair growth state at any given time.
14. How long does the telogen phase last? Up to 10% of hair follicles in the rest phase. (That amounts to about 10 000 scalp hairs that are typically shed during this phase.)
15. How long does the catagen phase last? A period of controlled regression of the hair follicle.