

Interactive Hair Web Lesson

(From GVL)

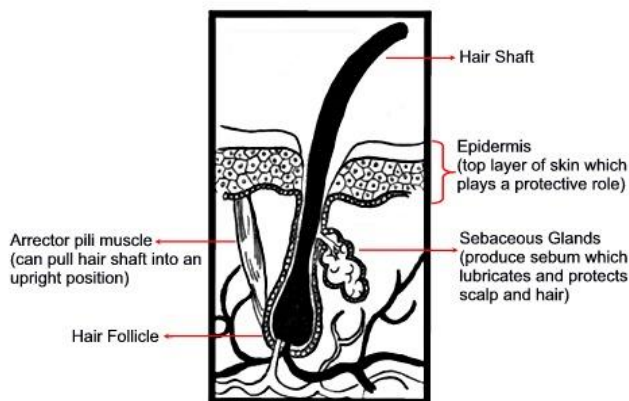


Image source: <http://www.foundationz.co.uk/html/images/Hair%20Follicle.jpg>

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.**