

**Integumentary System
Unit 3 Project
Honors Physiology**

3D Model of the Skin

Due: Thursday 10/27/16 (Periods 3 & 5) or Friday 10/28/15 (Period 4 & 6)

In place of a chapter test, for the Integumentary System you will be constructing a three-dimensional model of a cross section of our skin. You may use materials of your choice to make the model, and there is no size requirement. Along with the model, you will choose a **disease** that affects the skin, and create a visual (posterboard) describing the disease (see description below).

MODEL - Required parts check list:

- | | |
|-------------------------------|-------------------------------|
| 1. _____ epidermis | 9. _____ free nerve ending |
| 2. _____ dermis | 10. _____ papillary layer |
| 3. _____ hypodermis | 11. _____ reticular layer |
| 4. _____ hair root | 12. _____ pore |
| 5. _____ hair follicle | 13. _____ artery |
| 6. _____ hair shaft | 14. _____ vein |
| 7. _____ arrector pili muscle | 15. _____ adipose tissue |
| 8. _____ sensory nerve fiber | 16. _____ Sebaceous gland |
| | 17. _____ Eccrine sweat gland |

DISEASE POSTERBOARD -

For your disease describe the following:

- A **description** of the disease (what is it, how does it relate to the skin?)
 - Use your model as a reference in describing this to the class
- Signs/Symptoms** of the disease
- Cause** (if it's known – if not, what research is going into finding that cause?)
- Treatment/Cure** (if any – if not, what research is going in to finding the cure?)

Rubric**Points Possible**Model

- Model is 3D _____/ 5
- Work is both neat and accurate _____/ 5
- All required structures of the skin are easily identifiable _____/ 17
- All structures are labeled or a key is included to assist in identifying _____/ 17

Posterboard

- Work is neat, clear, and creative _____/ 6
- For disease, the poster includes: description, signs/symptoms, cause, and treatment/cure _____/ 12
- 3 pictures are included for the disease _____/ 3

Total: _____/ 65