**Sensation & Perception: February Break Assignment**

In our next unit, we will be talking about how we understand our world through our senses – primarily sight and hearing. Your task is to learn about how the eye and ear work, so we can apply that to the rest of the information in our unit.

**Assignment (Due Monday 2/23)**

* Take notes on Myers p124-140 (about the eye & ear)
* Complete your eye/ear project and have it ready to turn in
* (OPTIONAL) Begin studying level-up terms

**Eye/Ear Project Directions**

You will need to creatively show the various parts and functions of the eye and ear. You first need to create a 2D or 3D model of the eye and ear. You can use any materials or format you would prefer (book, poster, 3D model, etc.) but **you must draw or create the eye/ear YOURSELF!** You can certainly look at pictures and diagrams in the textbook or online, **but you should NOT copy and paste images from online or other sources.** To earn credit, each structure must be in COLOR or in 3D!

For each term listed below you need to draw/create the structure, properly label it, and TYPE a brief description of what that structure does. **The typed descriptions could be on a separate page or could be cut and incorporated into the project itself.**

|  |  |
| --- | --- |
| **Eye Parts (12)** | **Ear Parts (13)** |
| **Cornea****Pupil****Iris****Lens****Retina****Blind Spot****Fovea****Optic Nerve****Cones****Rods****Ganglion Cells****Bipolar Cells**  | **Outer Ear****Middle Ear****Inner Ear****Auditory Canal****Eardrum (Tympanic Membrane)****Hammer****Anvil****Stirrup****Oval Window****Cochlea****Basilar Membrane****Semicircular Canals****Auditory Nerve** |

**Project Scoring**

(The Myers reading will be included as a homework assignment and is NOT part of the project grade)

You can earn up to 2 points for each structure:

* 1 point for properly drawing/creating and labeling the structure
* 1 point for accurately describing what that structure does.
	+ To get the most out of this project do NOT simply copy and paste the definition. Try to put it in your own words where appropriate!

**Scoring Table**

|  |  |  |
| --- | --- | --- |
| **Structure** | **Properly Created/Labeled** | **Correct Description** |
| Cornea |  |  |
| Pupil |  |  |
| Iris |  |  |
| Lens |  |  |
| Retina |  |  |
| Blind Spot |  |  |
| Fovea |  |  |
| Optic Nerve |  |  |
| Cones |  |  |
| Rods |  |  |
| Ganglion Cells |  |  |
| Bipolar Cells |  |  |
| Outer Ear |  |  |
| Middle Ear |  |  |
| Inner Ear |  |  |
| Auditory Canal |  |  |
| Eardrum |  |  |
| Hammer |  |  |
| Anvil |  |  |
| Stirrup |  |  |
| Oval Window |  |  |
| Cochlea |  |  |
| Basilar Membrane |  |  |
| Semicircular Canals |  |  |
| Auditory Nerve |  |  |

**Parts of the Eye**

|  |  |
| --- | --- |
| **Structure** | **Function** |
| Cornea |  |
| Pupil |  |
| Iris |  |
| Lens |  |
| Retina |  |
| Blind Spot |  |
| Fovea |  |
| Optic Nerve |  |
| Cones |  |
| Rods |  |
| Ganglion Cells |  |
| Bipolar Cells |  |

**Parts of the Ear**

|  |  |
| --- | --- |
| Outer Ear |  |
| Middle Ear |  |
| Inner Ear |  |
| Auditory Canal |  |
| Eardrum |  |
| Hammer |  |
| Anvil |  |
| Stirrup |  |
| Oval Window |  |
| Cochlea |  |
| Basilar Membrane |  |
| Semicircular Canals |  |
| Auditory Nerve |  |