

**Honors Physiology**  
**Semester 2 Final**  
**Interview Questions**

Directions: For the semester 2 final, you will be participating in a **one-on-one interview** with your physiology teacher! Of the 4 questions provided (1 question per unit), your teacher will ask you 1 question at random - you are expected to carry out a conversation showing your understanding and competency of the material. We expect appropriate interview behavior and practices, such as speaking in a clear voice, making eye contact, being prepared/professional, etc. You are encouraged to prepare answers in advance, however you will **not be allowed notes** in your interview session.

**Unit 7: The Nervous System**

→ Describe the difference between the sympathetic and parasympathetic branches of the nervous system. Describe what each of these branches control, as well as any influences they have over other systems/ organs in the body (hint: mention influence of heart rate for sure!)

**Unit 8: The Endocrine System**

→ Describe two hormones in the body that work as antagonists to one another in regulating a homeostatic imbalance. Be able to tell me the names of the hormones, and the processes they each control in opposition to one another.

**Unit 9: The Cardiovascular System**

→ Describe the pathway of blood through the heart, lungs and body. Along the way, include all major chambers, valves, and vessels. Know when and where blood is oxygenated (or not), and be sure to start and stop at the same location!

**Unit 10: Overview**

→ Describe the working model of the lung we built in class. Be able to explain what each structure (straw, bottle, and both balloons) is intended to mimic, and correlate it to how our lungs actually work in the human body in terms of an increase/decrease of pressure.