**Questions to answer:**

1. Explain what happens during each of the following phases of animal development:
2. Fertilization
3. Cleavage
4. Gastrulation
5. Neurulation
6. Organogenesis
7. Diagram the structure of the amniotic egg, label each membrane and provide a brief description of their functions.
8. What is the function of the placenta in eutherian mammals?
9. What would you expect would happen to gene expression in a cell as it develops and differentiates in a developing organism?
10. Compare primary and secondary growth, and identify the tissue responsible for each.
11. Where is active xylem tissue found in a mature tree?
12. How is development in plants and animals similar?  How does it differ?

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* How cells receive positional information during animal development.
* How cell fate is determined during animal development.
* How pattern formation in plants is established.