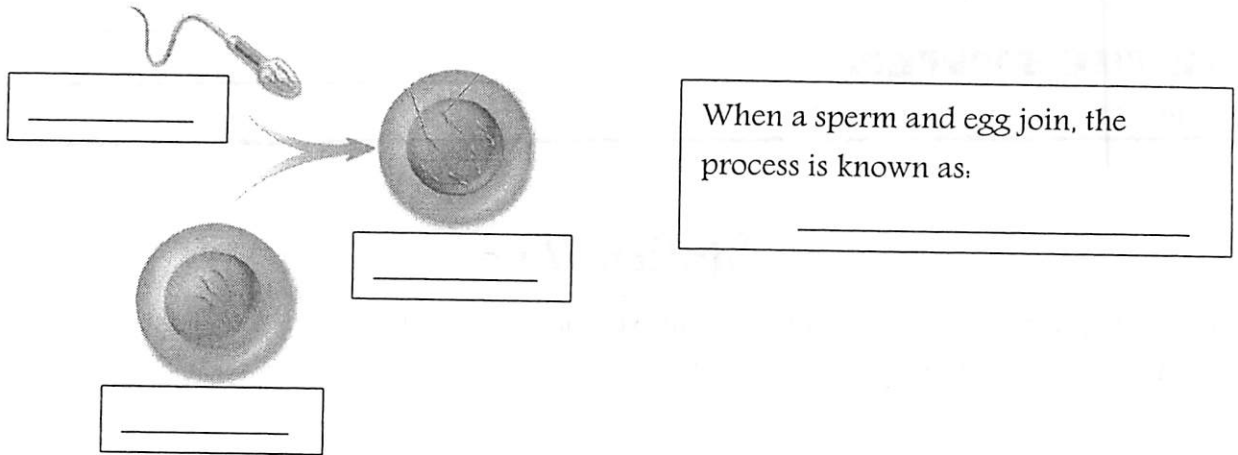


Station Seven

Directions: Read the information on the station diagrams and answer the questions below.

1. Looking at the "invitation," how many months ago was this party started? (Hint: How long does it take for a human to develop in utero?) _____
2. What are the female sex cells called? _____ Where are they created? _____
3. What are the male sex cells called? _____ Where are they created? _____
4. Label the diagram below.



5. How much genetic information comes from each parent? _____
6. What type of reproduction is it when two parents create an offspring? _____

NAME THE SYSTEM: _____
 This system allows more organisms to be made and prevents extinction from occurring. The circle of life!

Station Eight

Directions: Match the cards then complete the information below.

Define-

Antibodies: _____

Pathogen: _____

Antigen: _____

1. Can an antibody kill off more than one type of pathogen? What makes you say that? _____

Challenge Questions

Why won't you get an illness that you have been immunized (gotten a shot) against?

NAME THE SYSTEM: _____

This system fights off foreign invaders.

Station Nine

Directions. Complete the demonstration then answer the questions below.

1. What happens to the sand/pebble mixture? _____

2. What does the sand/pebbles represent? The colored water? _____

3. Why is filtration an important part of this system? _____

Challenge Question

Which organ filters the blood and removes wastes in your body? _____

NAME THE SYSTEM: _____

This system removes waste from cellular processes (metabolism) and filters the blood.

Station Ten

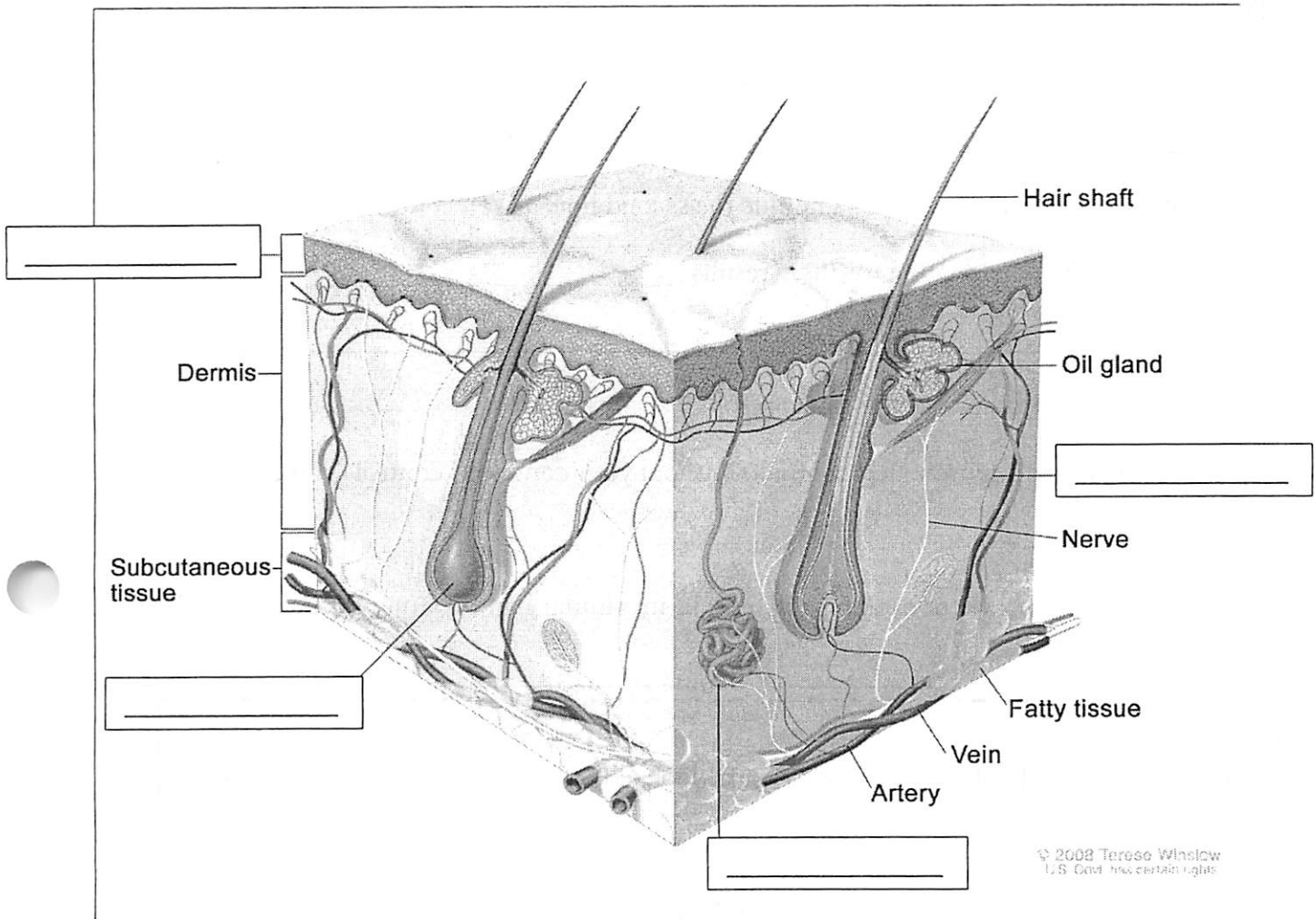
Directions. Observe the apples carefully then use the information at the station to complete the section below.

1. Did the apple with plastic wrap change color? _____

2. Did the apple without plastic wrap change color? _____

3. What organ does the plastic wrap represent? _____ This shows that this organ has the ability to: _____
4. If we didn't have this protective layering, for example a scrape or cut, what do you think would happen? _____

Label the missing parts below.



Looking at diagram two, how does this system work with the nervous system to cool you off if you get too hot? _____

By maintaining a constant body temperature, this is an example of: _____

NAME THE SYSTEM: _____

This system is the body's first layer of defense against infection. It also regulates body temperature to maintain homeostasis and remove excretory waste.

Station Eleven

Directions: Complete the activity using the clothespins then record your data below.

1. First trial clothespin squeezes: _____
2. Second trial clothespin squeezes: _____
3. Some people are able to squeeze the clothespin more times in a minute than others. What is a possible reason why this happens?

4. Could you do as many squeezes in a minute the second time as you could the first time? _____

5. Provide a scientific explanation for these results. _____

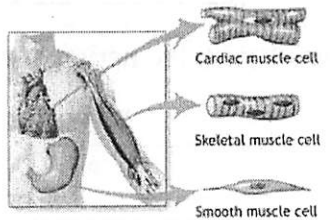
_____ Muscle= a muscle you can control

_____ Muscle= a muscle that contracts without your conscious control (You can't control it.)

Give an example of an organ where each type of muscle, involuntary and voluntary, can be found.

Challenge Question

Which never tires, tires slowly, tires quickly (Hint...look at the clothespin data to help you.)



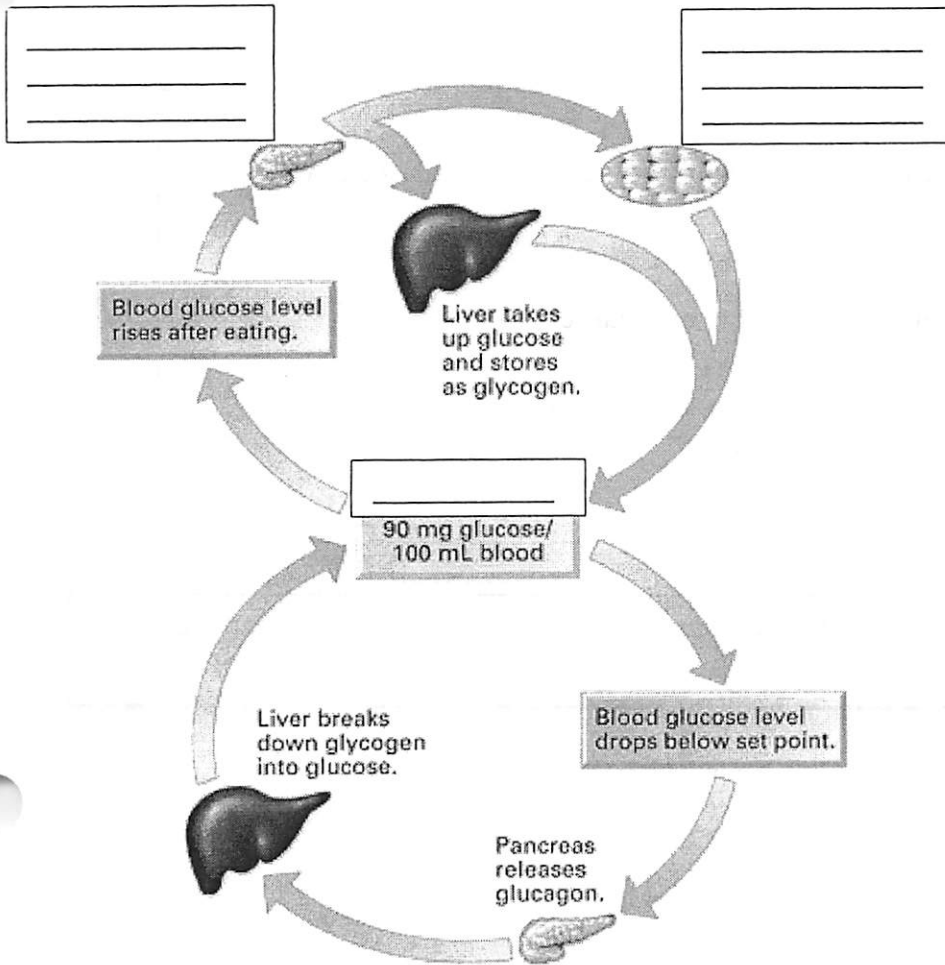
*ADAM

NAME THE SYSTEM: _____

This system allows you to move by contracting. Without it you couldn't jump, run or talk!

Station Twelve

Directions: Observe the diagram and then label the diagram and answer the questions below.



1. Insulin and glucagon are what type of chemicals? _____
2. These chemical messengers are created in organs known as: _____
3. What happens to your blood sugar/glucose levels when insulin is released? _____

4. Use the textbook at your table to define negative feedback. _____

5. How do insulin and glucagon work in opposition (against one another) to maintain homeostasis? _____

This is an example of _____ feedback.

Challenge Question

When insulin isn't produced and blood sugar levels are not maintained, what condition is the result? _____

How are hormones transported/delivered to their target organs?

NAME THE SYSTEM: _____

This system regulates bodily activities with chemical messengers; but is much slower at it than the nervous system.