

Biology I – 9 weeks review

Chapter 1

1. Watch the following video and answer the following questions:

<http://study.com/academy/lesson/8-characteristics-of-life-in-biology.html>

List the 8 Characteristics of Life: _____

2. What is the basic unit of life? _____
3. Which characteristic best explains why people have a stable internal body temperature? _____

Click on the following link. Answer the following questions:

<http://brainly.com/question/123047>

4. List the 3 stimulus responses _____
5. Watch the following video.

<https://www.brainpop.com/science/scientificinquiry/scientificmethod/>

List the steps to the scientific method: _____

Chapter 6 – Click on each link and read the page to answer the questions.

1. http://www.chem4kids.com/files/atom_structure.html

List the parts of an atom and state the parts charge. _____

2. http://www.chem4kids.com/files/atom_isotopes.html

What makes an atom an isotope? _____

List 2 examples of an isotope. _____

3. http://www.chem4kids.com/files/atom_bonds.html

A bond that shares electrons is a _____ bond.

A bond that borrows electrons is an _____ bond.

What type of bond is NaCl? _____

4. http://www.chem4kids.com/files/react_intro.html

What is made or broken to form new molecules? _____

List an example of a physical change. _____

5. <https://phet.colorado.edu/en/simulation/balancing-chemical-equations>

Click on the video. Click on the Introduction. Increase the numbers to balance the equation. What is the final balanced equation?

6. http://www.chem4kids.com/files/bio_enzymes.html

What do enzymes act as? _____

What factors regulate enzyme activity? _____

7. http://www.chem4kids.com/files/matter_mixture.html
How are the molecules spread in a homogenous mixture? _____

8. <https://www.youtube.com/watch?v=Xkrgw2CFwRs>
Watch the video. Draw the pH scale. What ions increase in an acid? Base? _____

9. <https://www.youtube.com/watch?v=wbvweWy2Hjg>
Watch the video. List the 3 types of reagents used to test the foods, what they test for, and list the colors they turn with a positive test.

Chapter 7

1. <http://biology.about.com/od/biologydictionary/g/celltheory.htm>
List the 3 principles to the cell theory: _____

2. <http://www.microscopemaster.com/parts-of-a-compound-microscope.html>
What do you use to bring a specimen into focus on a microscope? _____

3. <http://biology.tutorvista.com/animal-and-plant-cells/plasma-membrane.html>
What is used as a barrier between the inside and outside of a cell? _____
List one Function and one Characteristic of the Plasma Membrane. _____

4. http://www.sheppardsoftware.com/health/anatomy/cell/cell_game.htm
Click on the animal cell and identify the parts.

5. http://www.sheppardsoftware.com/health/anatomy/cell/plant_cell_game.htm
Click on the plant cell and identify the parts.

6. http://www.diffen.com/difference/Active_Transport_vs_Passive_Transport
What does active transport require? _____ List the 3 letters. _____
What does passive transport not require? _____

Chapter 8

1. <https://www.youtube.com/watch?v=4CK4z4MDXuE>
Watch the video. What organelle does photosynthesis take place in? _____
What does it produce? _____

2. https://www.youtube.com/watch?v=4Qj_YefKHw4
Watch the video. What is the second step in Cellular Respiration? _____

3. [http://www.diffen.com/difference/Aerobic Respiration vs Anaerobic Respiration](http://www.diffen.com/difference/Aerobic_Respiration_vs_Anaerobic_Respiration)

Define Aerobic Respiration. _____

Define Anaerobic Respiration. _____

Chapter 9

1. http://www.biology.arizona.edu/cell_bio/tutorials/cell_cycle/cells3.html

What are the 3 parts to Interphase? _____

Where are the chromosomes located in the following stages?

Metaphase- _____

Anaphase- _____

Telophase- _____

Chapter 10

1. <https://www.khanacademy.org/science/biology/cellular-molecular-biology/meiosis/a/phases-of-meiosis>

What type of cells in the body does Meiosis take place in? _____

How many divisions does a cell go through in Meiosis? _____

What is the process where homologous chromosomes trade parts? _____

How many cells are produced after Meiosis? _____

2. http://www.zerobio.com/drag_gr11/mono.htm

Complete the punnett square.