Respiration – Bozeman Video https://www.youtube.com/watch?v=Gh2P5CmCC0M

1. Cellular respiration in the presence of oxygen is:

1. Also CO2 dependent
2. Anaerobic
3. Produces lactic acid
4. Aerobic

2. Autotrophs

1. Photosynthesize and conduct cellular respiration
2. Do not Photosynthesize but do conduct cellular respiration
3. All always green and never conduct cellular respiration
4. Do not photosynthesize or respire

3. Write the equation for cellular respiration and include ATP and ADP + P as inputs and outputs.

4. The reason why respiration is performed is to…

1. Provide heterotrophs with food
2. Provide the photosynthetic organism with food
3. Provide ATP for cellular metabolism
4. Provide CO2 for plants

5. The folds in the inner membrane of the mitochondria are called

1. The Krebs folds
2. Cristae
3. Matrix
4. Stroma

6. Glycolysis ……

1. Only takes place inside the mitochondria
2. Requires Glucose
3. Takes place in the thylakoid
4. Uses energy from ATP and converts carbon dioxide into glucose

7. During cellular respiration one molecule of glucose.

1. Produces 2 molecules of ATP
2. Produces 36 molecules of ATP
3. Produces 32 molecules of ATP
4. Produces 34 molecules of ATP

8. Where does the energy for cellular respiration come from?

1. O2
2. ADP+P
3. Chemical bonds
4. ATP

9. Respiration is anabolic, True or False?

10. How many phosphate groups are there in ATP

**1. d**

**2. a**

**3. ADP+P + Glucose + O2 🡪 CO2 + H2O + ATP**

**4. c**

**5. b**

**6. b**

**7. b**

**8. c**

**9. F**

**10. 3**