

## Biology EOC Review

Name: \_\_\_\_\_

Period: \_\_\_\_\_

**Goal 1: Learner will develop abilities necessary to do and understand scientific inquiry. 28-32%**

**1.01 Identify biological problems and questions that can be answered through scientific investigations.**

### The Scientific Method:

1. List and describe the steps of the Scientific Method. Make sure you include **observations**, creating a testable **hypothesis**, identifying **variables**, **data**, having an **adequate sample**, & **replicating your findings**.
2. Why do many experiments make use of a **control group**? **Something to compare to**
3. What are the characteristics of a good experiment? **Many tests, all parts of an experiment present**
4. What is the difference between an **inference** and a **prediction**?  
**Inference = based on observations; Prediction = is a hypothesis**
5. What are the differences between **hypothesis**, **theory** and **law**?  
**Hypothesis = educated guess; theory = based on experiments; law = proven the same over and over**
6. What is the difference between an **independent** and **dependent** variable?  
**Independent variable = thing you test or change; Dependent variable = thing you measure**
7. Interpret graphs. Which axis has the independent variable? Which axis has the dependent variable?  
**Independent variable = x axis; Dependent variable = y axis**

### Tools of a Biologist: Things to know about Microscopes

8. How do you **determine the magnification** of the field of view for a microscope?  
**Power of lens + Power of Objective = magnification**
9. What happens to the **diameter** of the field of view when you change from low to high power?  
**Less to High magnification**
10. How do you estimate the **size** of a cell or cell structure when using a microscope?  
**Consider magnification and original size**
11. What do you adjust first on a microscope? What you then adjust when on the highest power?  
**1. Course Adjustment; 2. Fine adjustment**

**1.2 Design and conduct scientific investigations to answer biological questions.**

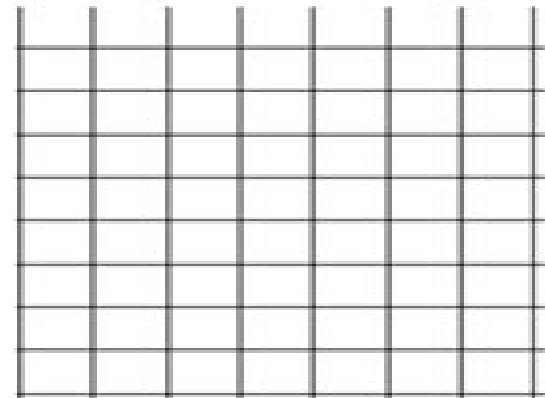
12. You have measured the rate at which a fish breaths at various temperatures by counting the rate at which its gills open. The data is below. Graph this data.

### Breathing rate Temperature

19/min 5 deg C, 25/min 10 deg C, 30/min 20 deg C, 34/min 30 deg C,  
37/min 35 deg C

13. What is the **independent variable**? The **dependent variable**?  
**Independent = temperature; Dependent = breathing rate**
14. What is the best type of graph for this data? Why?  
**Line = shows trends**
15. What happens to breathing rate with increase in Temperature?  
**Increases**
16. What would be a **good control** for this experiment?  
**Temperature stays the same and measure**
17. How do you think the breathing rate was measured?  
**Breathes per minute**
18. What do you think would happen if you raised the temperature even more?  
**Increase in breathing rate**
19. Why would it be a bad idea to do this? **Could kill the fish**

**1.3 Formulate and revise scientific explanations and models of biological phenomena using logic and evidence to: explain observations, make inferences and predictions, explain the relationship between evidence and explanation.**



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