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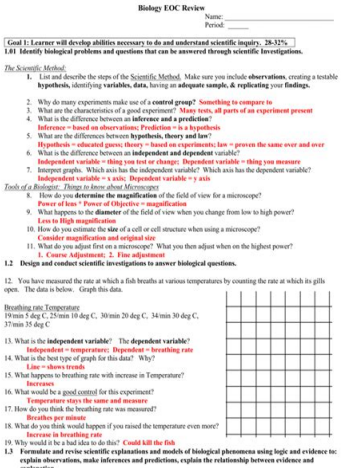

**Biology EOC Review**

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. Coarse 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.**