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Biology EOC Review

Name: _____
Period: _____

Goal 1: Learner will develop abilities necessary to do and understand scientific inquiry. 28-33%

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

The Scientific Method

- 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, & reporting your findings.
- Why do many experiments make use of a **control group**? **Something to compare to**
- What are the characteristics of a good experiment? **Many tests, all parts of an experiment present**
- What is the difference between an **inference** and a **prediction**?
Inference = based on observations; Prediction = is a hypothesis
- What are the differences between **hypothesis, theory and law**?
Hypothesis = educated guess; theory = based on experiments; law = proven the same over and over
- What is the difference between an **independent and dependent variable**?
Independent variable = thing you test or change; Dependent variable = thing you measure
- Interpret graphs. Which axis has the independent variable? Which axis has the dependent variable?
Independent variable = x axis; Dependent variable = y axis

Focus of a Biological: Things to know about Microscopes

- How do you determine the **magnification** of the field of view for a microscope?
Power of lens + Power of Objective = magnification
- What happens to the **diameter** of the field of view when you change from low to high power?
Low to High magnification
- How do you estimate the **size** of a cell or cell structure when using a microscope?
Consider magnification and original size
- 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 breathes 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

- What is the **independent variable**? The **dependent variable**?
Independent = temperature; Dependent = breathing rate
- What is the best type of graph for this data? Why?
Line = shows trends
- What happens to breathing rate with increase in Temperature?
Increases
- What would be a good control for this experiment?
Temperature stays the same and measured
- How do you think the breathing rate was measured?
Bubbles per minute
- What do you think would happen if you raised the temperature even more?
Increase in breathing rate
- 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 explanations.

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