

## INFORMATION FOR THOSE STILL WORKING ON COMPLETING COUNTING TURTLES LAB ACTIVITY FOR HOMEWORK!

### Analyze and Conclude:

#### 1. Calculating

All calculations should be finished by now/ all work should be shown in notebook

#### 2. Graphing

Graph the estimated total population for the four years

*(Graph is done on loose leaf or graph paper NOT IN NOTEBOOK; check labels, data, AND title!)*

Write "see separate paper for graph" in your notebook.

#### 3. Interpreting data

Describe how the turtle population has changed over the four years of the study. Suggest **three** possible causes for the changes.

*(Answer this question IN YOUR NOTEBOOK using complete thoughts; roll onto next page of notebook if needed)*

#### 4. Predicting

Use your graph to predict what the turtle population will be in Year 5. **Explain your prediction.**

*(Answer this question IN YOUR NOTEBOOK using complete thoughts. Roll into the next page of your notebook if you need more room to answer questions 3 and 4 of analysis)*

#### 5. Communicating

Write a paragraph that explains why the mark and recapture method is a useful tool for ecologists. When is this technique most useful for estimating a population's size?

*(Answer this question in your notebook; skip a line after #4 OR better still roll onto the next full page. I expect a full CEAL conclusion)*

C (claim) **What is the question/problem**

E (evidence) **Use specific data to discuss HOW this method is useful**

A (analysis) **Explain how this technique may be better than direct observation, indirect observation, and/or sampling. Discuss when this is a useful technique to estimate populations.**

L (leaving thought) **Restate the question**