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Vitamin C Clock Reaction Worksheet

Data Table 1

	Color and Appearance of Solution	
Beaker A		
Water + Vitamin C Solution		
Addition of Iodine		
After Stirring		
Beaker B		
Water + Hydrogen Peroxide		
Addition of Starch Solution		
Beaker C		
Start of Clock Period		
Alarm		

Data Table 2

Experiment	1	2
Amount of Water Added to Beakers A & B	15 mL	30 mL
Time Elapsed to Alarm (seconds)		



Post-Lab Questions

- 1. In this activity, two forms of iodine are present—the element form, iodine (I₂), and the ion form, iodide (I⁻). In step 5, Vitamin C reacts with the iodine initially present in beaker A to produce iodide ions. According to your observations, what color is this product?
- 2. In the presence of starch, elemental iodine (I₂) will change color while iodide ions will remain colorless. Which form of iodine—I₂ or I⁻—reacts with starch to produce the final product (the alarm) in beaker C? How do you know?
- 3. Write a conclusion regarding the effect of concentration on reaction rate based on your results. Indicate whether or not the results support your hypothesis from *Pre-Lab Question* 3.

Part II. Divergence and Rift Valley Formation **Observations/Drawings**

Questions (Use a separate sheet of paper to answer the following questions.)

- 1. Based on your observations for Part II, describe what happens as continental plates diverge.
- 2. List an example of where the type of movement seen in Part II (divergence) occurs.
- 3. Label possible weak points in your final drawing for Part II. How is the formation of these weak points different from those seen in Part I?