AP Biology 12-1
Mr. Adrover

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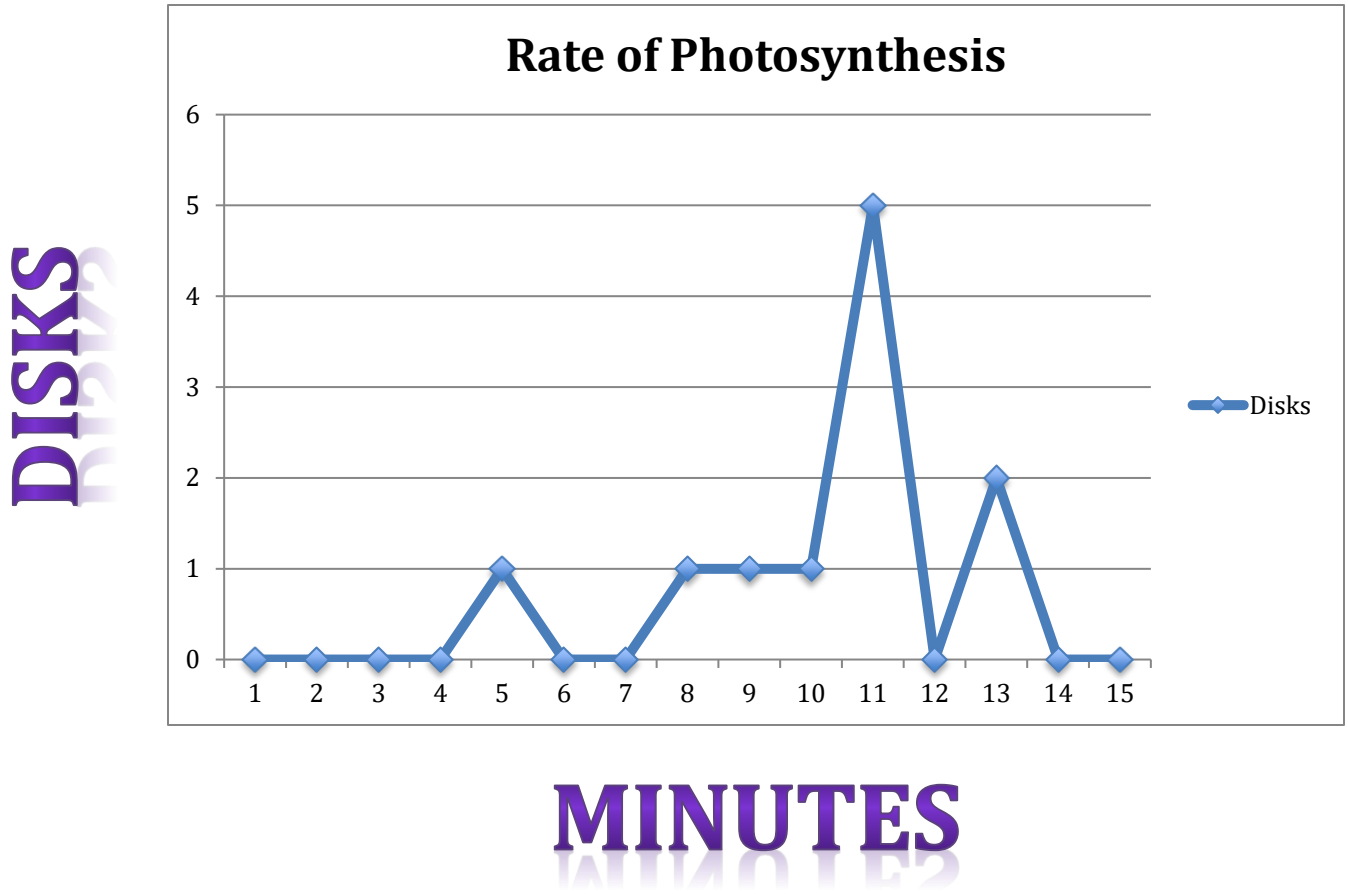
Lab #3: Rate of Photosynthesis

I. Data

Minutes	Disks
1	0
2	0
3	0
4	0
5	1
6	0
7	0
8	1
9	1
10	1
11	5
12	0
13	2
14	0
15	0

II. Line Graph



III. Questions

1. What happened to the chads while they were exposed to light? Explain using your knowledge of photosynthesis.
   When the chads are exposed to light, in their chloroplast, the light reactions occurred and oxygen was released as a product, and we observed it as bubbles on the chads.

2. Would the ET50 be affected if we added three grams (3g) of baking soda to the same 100 mL of water? Explain your answer.
   The ET50 would be affected, because the baking soda's purpose is to sink the chads, and if more baking soda were added, then it would not allow the chads to rise at all.
3. What happened to the chads when they were covered with aluminum paper? Explain your answer in terms of photosynthesis and cellular respiration.
   The chads will sink again, because the oxygen will be used up in cellular respiration.
4. What do you think will happen to the rate of photosynthesis if the chads were too close to the light source? Explain your answer in terms of protein denaturation.

If the chads are too close to the light they will over heat and it will disrupt cellular respiration. The chads will receive a higher concentration of CO2, they will be able to absorb more light than they had been able to, and therefore they will become denaturized.