Photosynthesis/Respiration Lab
Problem: What effect will the processes of photosynthesis and respiration have on Bromothymol blue indicator?
Observation: respiration produces $\mathrm{CO}_{2}$, photosynthesis produces $\mathrm{O}_{2}$. Bromo blue turns green when $\mathrm{PH}^{2}$ is 7 , turns. yellow when pH is below 7 , remains blue when pH is above 7 .
tlypothesis:
I think...
Control turns/stays
plant turnslstays $\qquad$ .
fish tuins/stays $\qquad$
plant|fish turns/stays $\qquad$ .

Experiment:

1. Fill 4 beakers with water
2. Add 1 mL Bromo blue to beater I
3. Place elodea in beaker 2 and 1 mL
4. Place fish in beaker with 1 mL of Bromo blue
5. place fish + elodea w/Bromoblue
6. Let sit for 24 hours
7. Record observations

Data:

| Data: | initial <br> Color | color <br> after <br> 24 hours | result |
| :--- | :--- | :--- | :--- |
| Beaker |  |  |  |
| Control | blue |  |  |
| plant | blue |  |  |
| fish | blue |  |  |
| plantlfish | blue |  |  |

Fermentation
Big Idea - anaerobic respiration $\mathrm{n}_{0} \mathrm{O}_{2}$ is present.

- Pyruvic acid cannot enter Krebs's.
- Converted into something else.
- In animals - lactic acid made
- No ATP is made
- Lactic acid builds up - muscles
- Tokes place in cytoplasm


