

# Photosynthesis Protocol

Question: How do different types of light effect photosynthesis?

1. Get a big glass beaker filled with distilled water
2. Put soap in the water to get rid of the wax on the leaf
3. Put in one teaspoon of baking soda
4. Cut out 52 leaf disk out of spinach leafs and put them in groups of 13
5. Get 4 plastic cups and put 100 ml of the soapy water baking soda mix in each one
6. Get a 4 syringes, and fill each with 13 leaf disk. Pull out the air in leafs.
7. Pull plunger out of syringe, put each group on a different plastic tray.
8. Make sure cups are labeled with which light it will be under. (Blue, red, green, and regular light.)
9. Make sure each tray has 13 leafs.
10. Put the leafs in their separate containers
11. Completely covering the cup, place the specified color sheet over the cup securing with a rubber band. (Blue, red, green, and regular light.)
12. Make the 4 light fixtures evenly leveled over the cups and turn them on at the same time while timing.
13. Have a graph ready
14. Record data.

# Photosynthesis Protocol

Day 2

Question: How do different types of light effect photosynthesis?

- 15.** Get a big glass beaker filled with distilled water
- 16.** Put soap in the water to get rid of the wax on the leaf
- 17.** Put in One teaspoon of baking soda
- 18.** Cut out 52 leaf disk out of spinach leafs and put them in groups of 13
- 19.** Get 4 plastic cups and put 100 ml of the soapy water and baking soda mix in each one
- 20.** Get a 4 syringes, and fill each with 13 leaf disk. Pull out the air in leafs.
- 21.** Pull plunger out of syringe, put each group on a different plastic tray.
- 22.** Make sure cups are labeled with what food coloring it will have.
- 23.** Make sure each tray has 13 leafs.
- 24.** Put the leafs in their separate containers
- 25.** Put in drops of food coloring as needed (Blue, Red, Green, and regular light.)
- 26.** Make the 4 light fixtures evenly leveled over the cups and turn them on at the same time while timing.
- 27.** Have a graph ready
- 28.** Record data.

