



Investigating an algae bloom on Big Rideau Lake

Your Name(s) _____

Date _____

1. MAP EXPLORATION

- a. Draw a representation of the **land cover** you see on Google Earth on the **model sheet** attached to this worksheet.

- b. **What is the difference in land cover between the north shore of Big Rideau and the South Shore of Big Rideau**

- c. How do you think this land cover might influence the development of algae blooms on Big Rideau? Write down a *hypothesis*. HINT: Look back at the Water Rangers online course module *Nutrients and Water Quality*

- d. Add on to your model drawing -- arrows and symbols to demonstrate your hypothesis

2. **INCIDENT REPORT**

- a. Make another *hypothesis*: did the algae bloom incident reported on Water Rangers occur on the North or South Shore of the lake? Why do you think this?

- b. Explain the story behind your hypothesis. What do you think caused the algae bloom to occur in this location?

- c. Add to your MODEL where you think the algae bloom occurred (roughly) and draw in the processes that you believe caused it

3. **CHECK THE MAP**

a. **Where did the algae bloom actually occur?**



b. **Modify your model to fit what you learned**

MODEL TEMPLATE

