



Term 3, Lesson 6

Data Comparison & Interpretation

Learning Objectives:

1. Compare data collected from water quality and water bug sampling;
2. Graph dependent and independent variables and interpret findings in relation to wetland health;
3. Interpret results of eDNA sampling (if sampled).

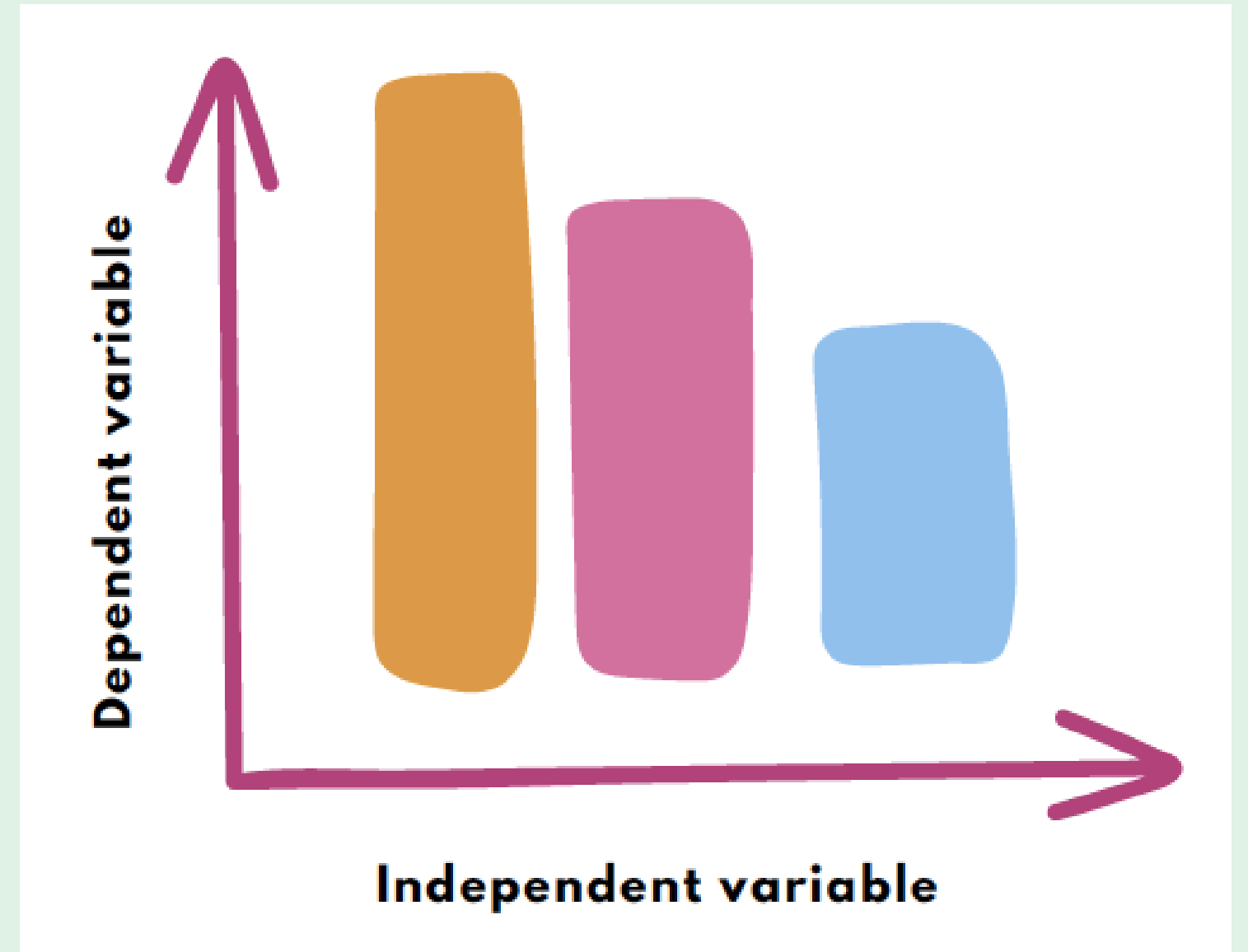


Photo credit: Dr. James Van Dyke

Independent & Dependent Variables

Independent variable - a variable that is unchanged by other variables being measured. Belongs on the x-axis.

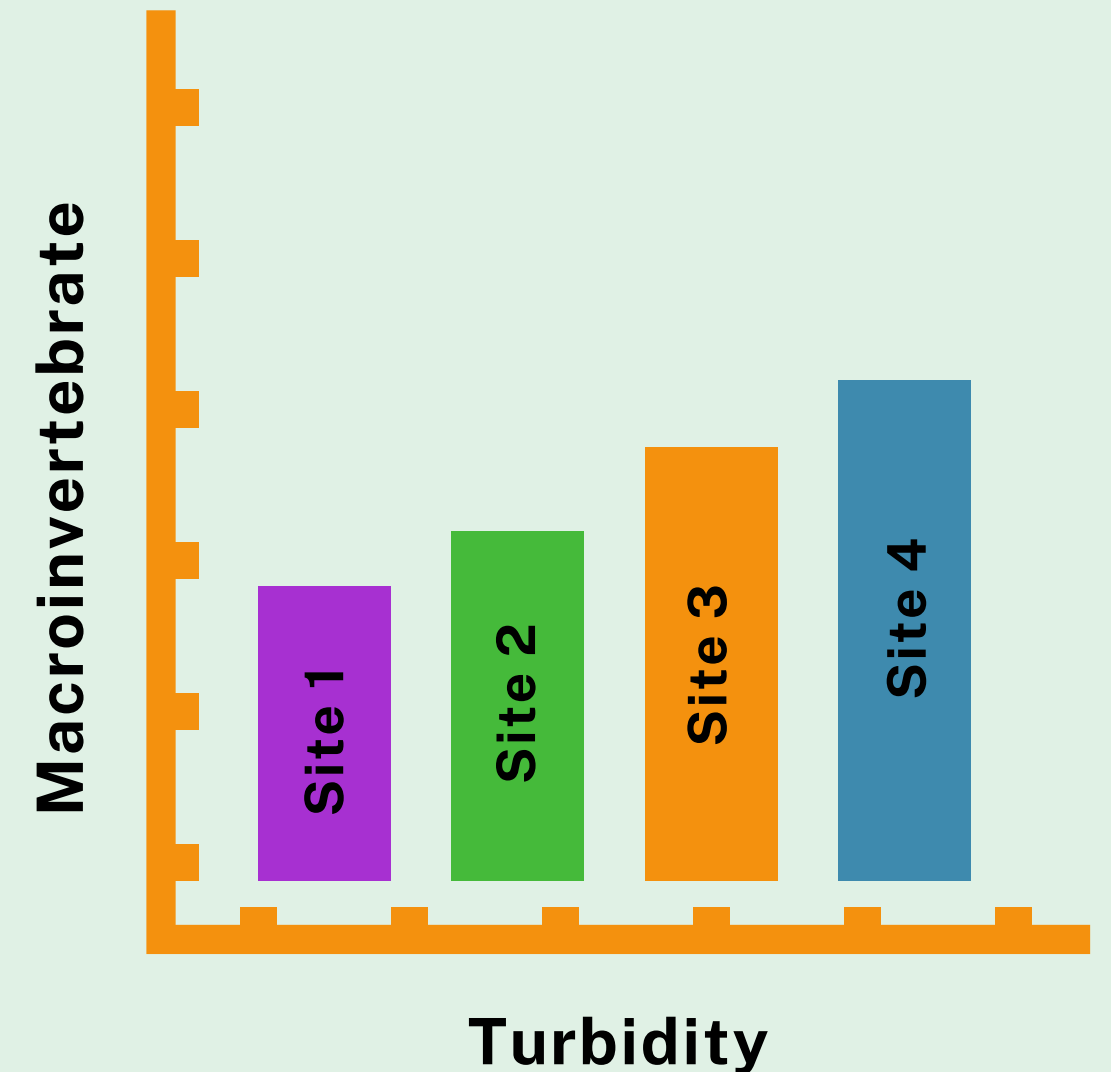
Dependent variable - the variable that changes as a result of the independent variable. Belongs on the y-axis.



Classroom Activities

Activity 1 -

- Identify the independent and dependent variables from the water quality testing and macroinvertebrate survey.
- Graph how the abundance of macroinvertebrates is impacted by water quality parameters.
- Discuss as a class how water quality impacts macroinvertebrate populations.



Classroom Activities

Activity 2 -

Interpret the results of the eDNA sample.

- Compare your findings with literature on species distributions.
- Identify the species you expected to detect in the wetland and any which were unexpected.



Classroom Activities

Activity 3 - Class Discussion

Q: What do the SIGNAL scores tell us about the health of the wetland?

Q: What do the water quality results tell us about the health of our wetland?

Q: How might the results impact freshwater turtles at the wetland?

