

Nature of Science Vocabulary

- **COPY & PASTE** the **definition** of each word in your **digital notebook** OR **handwrite** it in your physical notebook
DRAW and label a quality **COLOR** picture of each concept next to the concept. You can use the textbook or online resources to find examples. (Please **do not** copy & paste online images. Images must be **your own**)

1. **PREDICTING**: the process of **deciding what will happen** in the future based on past experience or information gathered.
2. **HYPOTHESIS**: a statement about **what will happen if** a given condition or treatment is applied (to the question being explored).
3. **MODEL**: a visual representation of an object, idea, system, or process that **helps to illustrate or explain** a phenomena or concept.
4. **MANIPULATED VARIABLE** (*Independent Variable*): The variable that is **being tested** or **changed** in the experiment.
5. **RESPONDING VARIABLE** (*Dependent Variable*): It is the **effect or outcome** in an experiment. It is the **factor being measured**.
6. **CONTROL GROUP**: in an experiment the population or group that **does not** get the treatment (variable being tested).
7. **EXPERIMENTAL GROUP**: in an experiment the population or group that **receives** the treatment (variable being tested).
8. **INFERRING**: the process of **making sense** of information gathered.
9. **CONCLUSION**: an **explanation** of what the **data** means in light of your **hypothesis** and its implication for future research.
10. **QUALITATIVE**: observations that describe something's **quality, characteristics, or traits**.

11. QUANTITATIVE: observations that provide information about quantity or the amount. (They almost always include the units).