

- List the data and/or measurements you need to answer your question. How do you access this information/data? What type of data is it, qualitative or quantitative?

Data I need	Location of the data	Qualitative or Quantitative?
<i>A sample of ___ (shape) galaxies</i>	<i>Galaxy images from SDSS Navigator or Image List</i>	<i>I will be matching the galaxy shape to the Hubble Tuning fork. Qualitative</i>

3 – Write a Hypothesis and Identify Variables

- List the variables in your investigation. Describe how you know they are variables.
- Review your work so far and write a hypothesis for your research question. Be certain that it references both variables you identified.

4 – Describe Your Procedures

- List the steps you will take to gather your data, organize the information, and analyze the results. Think about the mathematical tools you have available to look for patterns in your results – graphs, averages, ranges, and more complex measures such as standard deviation and variance.

9. Create a statement that describes how you will decide if your data support or do not support your original hypothesis.

6 – Conclusions – Interpret Your Results

10. Do any patterns appear in my data? What appears to be true when I review my work?
11. Do my two variables appear to be related? Describe the relationship as best you can with words or statistics.
12. Is my hypothesis supported by the data?

