

**6<sup>th</sup> Grade Science  
Prioritizing Worksheet**

**Standard: 1            Nature of Science (SC.S.6.1)**

- Demonstrate an understanding of the history of science and the evolvement of scientific knowledge.
- Demonstrate an understanding of science as a human endeavor encompassing the contributions of diverse cultures and scientists.
- Demonstrate an understanding of the characteristics of a scientist.
- Demonstrate skills of scientific inquiry.

|   | <b>Essential</b> | <b>Important</b> | <b>Compact</b> |
|---|------------------|------------------|----------------|
| <b>SC.O.6.1.1</b><br>Realize that scientists formulate and test their explanations of nature using observation and experiments.   |                  |                  | <b>X</b>       |
| <b>SC.O.6.1.2</b><br>Recognize scientific knowledge is subject to modification as new scientific information challenges current explanations.   |                  |                  | <b>X</b>       |
| <b>SC.O.6.1.3</b><br>Examine the careers and contributions of men and women of diverse cultures to the development of science.  |                  |                  | <b>X</b>       |
| <b>SC.O.6.1.4</b><br>Compare and contrast the historical significance of scientific discoveries.  |                  |                  | <b>X</b>       |
| <b>SC.O.6.1.5</b><br>Cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.  |                  | <b>X</b>         |                |
| <b>SC.O.6.1.6</b><br>Formulate conclusions through close observations, logical reasoning, objectivity, perseverance and integrity in data collection.   |                  | <b>X</b>         |                |
| <b>SC.O.6.1.7</b><br>Apply skepticism, careful methods, logical reasoning and creativity in investigating the observable universe.  |                  | <b>X</b>         |                |
| <b>SC.O.6.1.8</b><br>Use a variety of technologies and scientific instruments to conduct explorations, investigations and experiments of the natural world.   |                  | <b>X</b>         |                |
| <b>SC.O.6.1.9</b><br>Demonstrate safe techniques for handling, manipulating and caring for science materials, equipment, natural specimens and living organisms.  |                  | <b>X</b>         |                |
| <b>SC.O.6.1.10</b><br>Utilize experimentation to demonstrate scientific processes and thinking skills (e.g., formulating questions, predicting, forming hypotheses, quantifying, or identifying dependent and independent variables). |                  | <b>X</b>         |                |
| <b>SC.O.6.1.11</b><br>Construct and use charts, graphs and tables to organize, display, interpret, analyze and explain data.  |                  | <b>X</b>         |                |
| <b>SC.O.6.1.12</b><br>Use inferential reasoning to make logical conclusions from collected data.  |                  | <b>X</b>         |                |