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**Coal City Unit District #1**  
**Science of the Modern World**  
**Science Curriculum**

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**SC.SMW:1 Students will develop evidence based arguments from credible sources and be able to evaluate the quality of an argument.**

SC.SMW:1-1 Sort pieces of evidence into categories (e.g. supports claim, refutes claim, neither supports nor refutes, supports claim 1, supports claim 2, supports both claims).

SC.SMW:1-2 Paraphrase articles to express the most important information.

SC.SMW:1-3 Evaluate pieces of evidence for their importance and validity.

SC.SMW:1-4 Construct a claim based on multiple sources of information.

SC.SMW:1-5 Analyze the ability of a piece of evidence to support a claim.

SC.SMW:1-6 Justify how a piece of evidence supports or does not support a claim.

**SC.SMW:2 Students will communicate their own evidence based ideas with peers.**

SC.SMW:2-1 Communicate in civil and professional manners in writing and speaking.

SC.SMW:2-2 Respond to questions and other perspectives thoughtfully while staying on task.

SC.SMW:2-3 Present information conveying a clear and distinct perspective and opposing perspectives.

SC.SMW:2-4 Assemble visual aids to help convey their perspective.

SC.SMW:2-5 Analyze data from charts and graphs to gather information and support a claim.

**SC.SMW:3 Students will utilize digital and textual resources to research a question.**

SC.SMW:3-1 Utilize an online research database.

SC.SMW:3-2 Distinguish between credible and noncredible sources of information.

SC.SMW:3-3 Cite sources of information properly.

SC.SMW:3-4 Differentiate between primary and secondary sources.

SC.SMW:3-5 Develop a question to be researched.

SC.SMW:3-6 Refine a question that is too broad or narrow to be researched.

SC.SMW:3-7 Demonstrate understanding of the central idea of an article.

**SC.SMW:4 Students will be able to solve real world problems using science and engineering practices.**

- SC.SMW:4-1 Define the problem that needs to be solved.
- SC.SMW:4-2 Identify criteria and constraints to the solution of the problem.
- SC.SMW:4-3 Design multiple potential solutions that fit the criteria and constraints.
- SC.SMW:4-4 Test multiple potential solutions in order to gather data.
- SC.SMW:4-5 Determine the best or worst solution for a problem based on data.
- SC.SMW:4-6 Refine a solution to a problem. (e.g. function, cost, environmental safety)

**SC.SMW:5 Students will be able to communicate their own viewpoint after weighing scientific facts and ethical arguments.**

- SC.SMW:5-1 Describe how scientific knowledge evolves.
- SC.SMW:5-2 Differentiate between different types of ethical arguments.
- SC.SMW:5-3 Analyze different viewpoints to understand a person's perspectives.
- SC.SMW:5-4 Evaluate their own viewpoint based on morals and ideas as well as current scientific information.