

Implementing Common Core Standards

5.NBT.5: Students will be able to perform operations with multi-digit whole numbers and with decimals to hundredths.

Students will need to total or multiply carbon usage over time to create a display of long term data and how various factors have changed our climate.

5.OA.2: Students will be able to write simple expressions that record calculations with numbers and interpret numerical expressions.

Students will evaluate changes in behavior and how that affects their carbon footprint. Students will write number sentences and substitute variables in formulas to calculate carbon dioxide emissions.

5.MD.1: Students will be able to convert like measurements within a measurement system.

Students will convert carbon dioxide emissions from pounds and tons, as well as like measurements of kilograms and grams.

5.G.2: Students will be able to represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane and interpret coordinate values of points in the context of a situation

Students will gather and generate data to display global temperatures over time as well as carbon dioxide emissions per capita. Students will be able to chart their own carbon usage and determine trends over time.

5.RIT.6: Students will analyze multiple accounts of the same event or topic, noting important similarities and differences in the point of view that they represent.

Students will use resources from Student Reading Material list to compare and contrast various aspects of the greenhouse effect and discuss the scientific vs. political points of view.

5.RIT.7: Students will be able to draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or solve a problem efficiently

Students will examine charts, graphs, informational text, and various other sources to gather information for data support. Students will use various websites for data conversion formulas for carbon dioxide emission equivalents as well.

5.RIT.9: Students will be able to integrate information from several texts on the same topic in order to write or speak about the subject knowledgably

Students will use the information and data gathered to present to the class their findings in a class visual and oral presentation.