

I. Topic Area

Investigating and discovering different physical properties of matter after a chemical change.
Identify and utilize percentages, decimals, and fractions.
Using various forms of measurement and conversion techniques.

II. Objectives

Students will be able to measure volume.

Students will be able to measure length in both metric and standard units of measure.

Students will identify and utilize percentages.

Students will be able to convert percentages to fractions and decimals.

Students will be able to collect and analyze data.

Students will be able to compare and contrast properties of matter.

Students will be able to test and recommend the best formula for making "OOEY GOOEY".

III. Description of Activity

Students will make one control formula of "OOEY GOOEY". After playing with the "Ooey Gooney" they will formulate two different recipes using the same materials but different amounts of the ingredients. Students will formulate ways in which to test the "OOEY GOOEY". As the "OOEY GOOEY" is being tested measurements will be taken and converted from one measurement system to another. Ratios will be determined. Percentages, decimals, and fractions will also be calculated from the data.

IV. Anticipatory Set

As students enter the room, they will notice that have an "egg" on their desk. This egg will contain "Silly Putty". Allow the students a little time to experiment with the putty. Talk about some characteristics that they noticed about the "Silly Putty".

V. AR Science Standards (6th)

PS.1.3 Generate written conclusions based on evidence acquired through experimentation.

PS.2.4 Experiment and identify physical and chemical changes.

PS.3.2 Demonstrate how physical science is connected to mathematics (analyze collected data).

PS.3.4 Use appropriate equipment tools, techniques, technology, mathematics and technical writing in scientific investigation.

AR Math Standards (6th)

NO.1.6.1 Demonstrate conceptual understanding to find a specific percent of a number, using models, real life, example, or explanations

NO.1.6.2 Find decimal and percent equivalents for proper fractions and explain why they represent the same value

NO.1.6.4 Convert, compare and order fractions (mixed numbers and improper fractions) decimals and percents and find their approximate locations on a number line

NO.3.6.4 Estimate reasonable solutions to problem situations involving fractions and decimals

NO.3.6.6 Use proportional reasoning and ratios to represent problem situations and determine the reasonableness of solutions with and without appropriate technology

NO.3.6.7 Determine the percent of a number and solve relate