

CONCEPT MAP OF UNIT

Week Four

September 22-26

TOPIC

Integrated Science

TEACHER

Ms. Roth

GRADE

6th 7th & 8th Grade

KEY LEARNING(S)

OBJECTIVES

OPTIONAL INSTRUCTIONAL TOOLS

Make up for all assignments missed

8th grade

Tech book, white board, coloring pencils, rulers, graph paper, construction paper, notebooks, worksheets. Jelly beans, toothpicks.

Begin talking about greenhouse gases and how certain molecules in the atmosphere affect our weather and climate.

States of Matter/Weather and Climate

7th grade:

Talk about infrared light waves and how they attract to certain molecules in the atmosphere.

States of Matter/Environmental Issues

6th Grade

States of Matter/Waves

PERFORMANCE EXPECTATIONS

CONCEPT 1.4 8TH GRADE

CONCEPT 1.4 7TH GRADE

CONCEPT 1.4 6TH GRADE

MS-PS1-1 Develop models to describe the atomic composition of simple molecules and extended structures.

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DISCIPLINARY CORE IDEAS

PS1.A: Structures and Properties of matter: Substances are made from different types of atoms, which combine with one another in various ways. Atoms from molecules that range in size from two to thousands of atoms.

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SCIENCE AND ENGINEERING PRACTICES/CROSSCUTTING

Developing and using models: Develop a model to predict and or describe a phenomenon.

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Scale, proportion, and quantity: Time, Space and energy phenomena can be observed at various scales using models to study systems that are too large or too small (MS-PS1-1)

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ADDITIONAL INFORMATION

Monday-Wednesday students are given classroom time to make up all assignments missed due to absences, tardiness, ISI, or other related occurrences. Students will be given the assignments in class and the teacher will assist when needed. Once the student has finished all assignments, they will be given the option of receiving extra credit by reading the article Chemistry is all around us and answering the questions. If they decline that, they will be given a headphone and mouse and can sign on their accounts to explore discovery active or play games and listen to music. If they complete the work, they will be rewarded with that option. However, they will not be given the headphones and mouse unless all make up work is completed.

Thursday

Warm-ups

1. What is the structure of a water molecule?
2. How does the Sun's thermal energy react to carbon dioxide CO₂ in the atmosphere?
3. How do we use Fossil Fuels?

EC What is Global Warming?

After warm ups the students will begin their lab on making molecules. They will create three greenhouse gas molecules. Water vapor, carbon dioxide and methane. They will then answer the three questions. The lab is worth 60 points. 30 for modeling and 30 for answering.

Friday

Warm ups

1. What was the most interesting thing you have learned so far in Science class?
2. What is something you would like to learn in Science class?
3. How can you continue to succeed in science when you move forward with your learning?

EC: What is a greenhouse gas and how does it affect our atmosphere?

The students will be given a review of all the information we have gone over thus far. This will be a review as a group. The students will have a chance to go over their work and to receive the grade that they currently have. Midterm grades will be submitted on Monday.

Once the review is completed, the students will have a final chance to finish all the work they have missed. If they refuse, a 0 will be given. Students were made aware on Monday that they would have this time. If they chose not to complete the work, a 0 will be filled in.

