

MON. JAN. 29TH

TUE. JAN. 30TH

WED. JAN. 31ST

THU. FEB. 1ST

FRI. FEB. 2ND

## 7th Grade Science Atoms and Bonding Lab

### Standards

**MS-PS1** Matter and Its Interactions

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

### Objective

Students will be able to understand and demonstrate atomic bonding through gummy bear lab

### Critical Questions

1. How is a compound different from a molecule?
2. Are all molecules, compounds?

### Engage

Students get in groups, answer preliminary questions, and building atomic bonds with toothpicks and gummy bears  
 Gummy Bear Lab Ionic & Covalent Bonding.pdf

### Assessment

Per lab rubric  
 Lab Performance Rubric.pdf

### Homework

Complete Post Lab Questions  
 Post Lab Questions.pdf

### Accommodations & Modifications

## 7th Grade Science Elaborate Phenomena Part I

### Standards

**MS-PS1** Matter and Its Interactions

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

### Objective

Students will be able to elaborate on the principles of atomic bonding through writing assignment

### Critical Questions

What are the intermolecular forces on an atom?

### Bellringer

Data Interpretation Graph

### Engage

Students participate in writing assignment; must use all three prompts to write 3 different stories  
 Writing Assingment.pdf

### Assessment

Per rubric  
 Writing Rubric.pdf

### Accommodations & Modifications

## 7th Grade Science Elaborate Phenomena Part II

### Standards

**MS-PS1** Matter and Its Interactions

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

### Objective

Students will be able to elaborate on the principles of atomic bonding through writing assignment

### Critical Questions

What are the intermolecular forces on an atom?

### Bellringer

Watch video on ionic and covalent bond  
[https://youtu.be/\\_M9khs87xQ8](https://youtu.be/_M9khs87xQ8)

### Engage

Students participate in writing assignment; must use all three prompts to write 3 different stories  
 Writing Assingment.pdf

### Assessment

Per rubric  
 Writing Rubric.pdf

### Accommodations & Modifications

## 7th Grade Science Atomic Bonding Exam

### Standards

**MS-PS1** Matter and Its Interactions

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

### Objective

Students will be able to demonstrate knowledge of atoms and bonding through exam.

### Critical Questions

1. What determines an element's chemistry?
1. What are the intermolecular forces on an atom?

### Bellringer

Study for exam

### Engage

Exam

### Assessment

Exam is assessment

### Accommodations & Modifications

## 7th Grade Science Chemical Reaction: Why does food spoil faster at higher temperatures?

### Standards

**MS-PS1-2** Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.

**MS-PS1-5** Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved.

### Objective

Students explore ideas of chemical reactions with first day phenomenon exploration

### Critical Questions

1. How can you identify a chemical reaction?
2. How can you describe changes in matter?

### Bellringer

Chemical Reactions Video

### Engage

Students get in new lab groups and answer the following questions:

1. Are there chemical reactions with rotten meat? if so, what is reacting?
2. How does the temperature affect the speed of the meat going bad?
3. Why do we keep foods in a refrigerator/freezer?
4. Why do some foods spoil faster than others? Can you provide an example?
5. How does oxidation affect the rate of food being spoiled?
6. What are some common indicators that the food has gone bad?
7. Once the food has changed through the process of being spoiled, can it revert back to its original form? Can you think of other chemical reactions where the item can be returned to its original form?

### Assessment

Question on Kahoot

**Notes**

<http://www.middleschoolchemistry.com/lessonplans/chapter6/lesson1>