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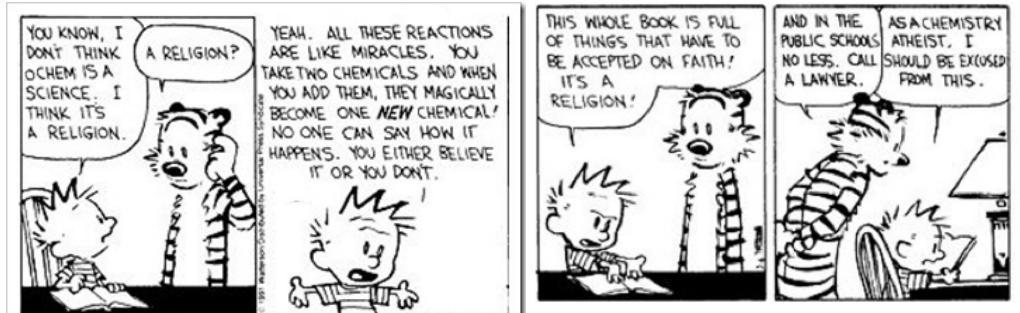
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SCIENCE 8 Chapter 7: The Kinetic Molecular Theory

Kinetic Molecular Theory, Atomic Theory, and Models

INTRODUCTION TO THE KINETIC MOLECULAR THEORY



Demo #1: Coloured water

1. What did the food colouring look like when it was first added to the water?

2. What did it look like a few minutes later?

3. What did it look like next?

4. What did it look like at the end?

Demo #2: Smelly room

1. What are your predictions of the scent being sprayed in the corner of the room?

a. Who will smell it first? _____

b. Will everyone smell it? Why or why not? _____

2. Was everyone able to smell the fragrance? _____

3. Eventually, what happened? _____

Why? _____

- How do your observations of the sprayed scent confirm that gases are made up of constantly moving microscopic particles? _____

- Did the smell disappear? Where did it go? _____

Demo #3: Leaky balloons

- What did the first (water) balloon smell like?

- What did the second balloon smell like?

- What did the third balloon smell like?



- What did the fourth balloon smell like? _____
- Did your hands get wet by holding the water balloon? _____
 How is the water contained by the balloon? _____

- Did the other balloons smell the same as the water balloon, or different?

- Did you feel anything liquid on the outside of the balloons? _____
 How does the smell get out of the balloons? _____

Student Activity: Powdered Drink Mix

1. What does the water taste like before adding the mix? _____
2. What is the colour of the water before adding the power? _____
3. What is the colour of the drink mix before adding it to the water? _____
4. What is the colour of the mix immediately after adding it? _____
5. How can you tell when the mix is evenly spread throughout the water?



6. Does the colour get lighter or darker as it mixes? _____
Why? _____
7. What would happen if we mixed the same amount of powder to a larger amount of water, like a bathtub? _____
Why? _____

8. What does the water taste like after all the powder is mixed? _____
9. What types of particles are in the mix? _____

10. Draw what you think the mixed drink looks like under a microscope. Use different colours/shapes for the different particles.

