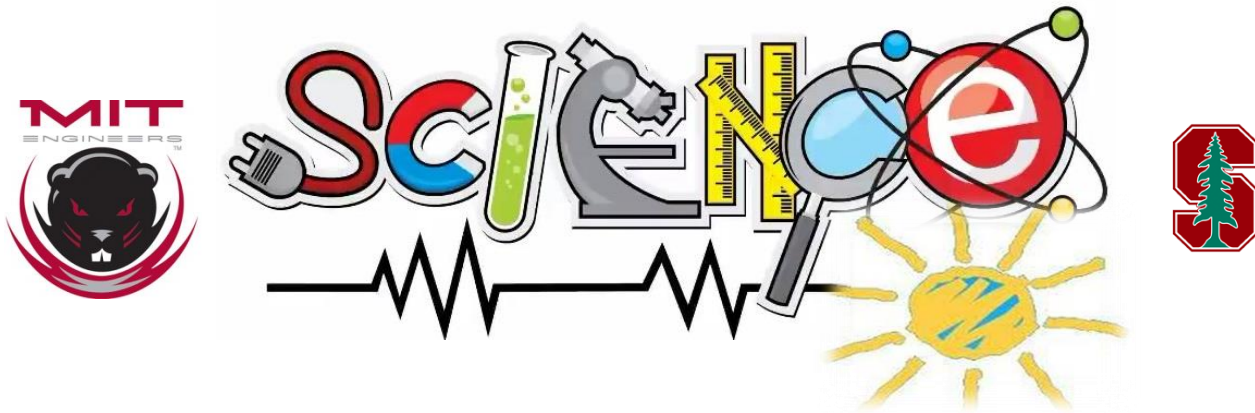




Name _____

5th Grade Science Remote Learning Packet

Week 28



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

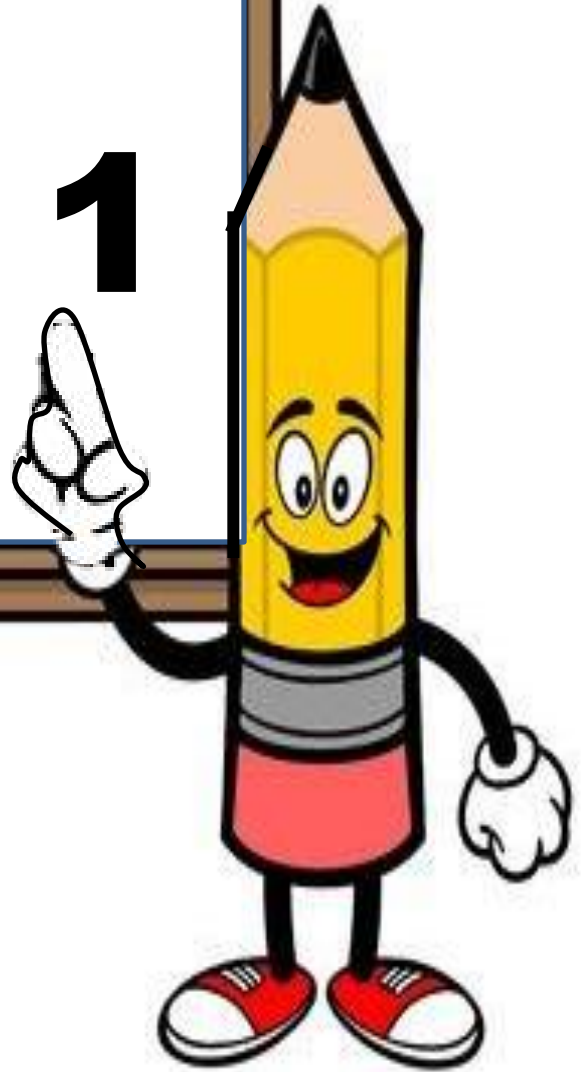
(Parent Signature)

(Date)

Parents please note that all academic packets are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



Day # 1



Name: _____ Week 28 Day 1 Date: _____

BCCS-B

Stanford MIT

Chemical Magic Guided Notes & Exit Tickets

Mystery 5: Why do some things explode?

The Question: *Answer the question in a complete sentence.*

Why do some things explode?

Day 1:

Vocabulary: *Fill in the blanks with the colored word from the PowerPoint presentation.*

1. _____: to suddenly break apart in a violent way with parts flying outward
2. _____: the sudden, loud, and violent release of energy that happens when something (such as a bomb) breaks apart in a way that sends parts flying outward
3. _____: used to explain the physical properties of solids, liquids and gases; describes the arrangement and movement of particles in a substance

Video: *During the video, take notes. When asked to discuss, first think about your response and then write it down. When asked to discuss, either raise a silent scholar hand to respond whole-group or discuss with your partner, taking turns.*

Exploration 1: Notes- _____

Exploration 2: Discuss-What makes these things explode? What's going on? _____

Exploration 3: Notes- _____

Exploration 4: Discuss-Why do you think the containers were shattering? _____

Activity: *Ensure that you are following all directions. Unless you are asked to discuss, there should be no talking. During this activity, it is important that you follow directions in order to stay safe. Answer all questions on your activity sheet.*


STEP 3: Discuss-What do you think will happen when you mix baking soda and vinegar in a sealed bag? Why do you think that? _____

STEP 10: Discuss-What do you think made the bag expand? _____

Does this give you any ideas about why the alchemists' glass container shattered? _____

Exploration 5: Notes- _____

EXIT TICKET: Discuss-Draw a picture using a particle model to explain why the bag exploded (you can label the picture too). (2 POINTS)



Name: _____ Week 28 Day 1 Date: _____

BCCS-B

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Capturing Chaos

Experiment #1

1). Describe what happened when you mixed baking soda and vinegar in your sealed bag:

2. Think about why that happened. Draw a picture (or pictures) below that will show what you think made that happen. Write labels and captions if you need them to make your ideas clear. You can include things that are too small to see.



Experiment #2

As a class, decide on your second experiment and answer the questions below. If your first experiment exploded, we challenge you to make your bag inflate until it ALMOST pops, but doesn't!

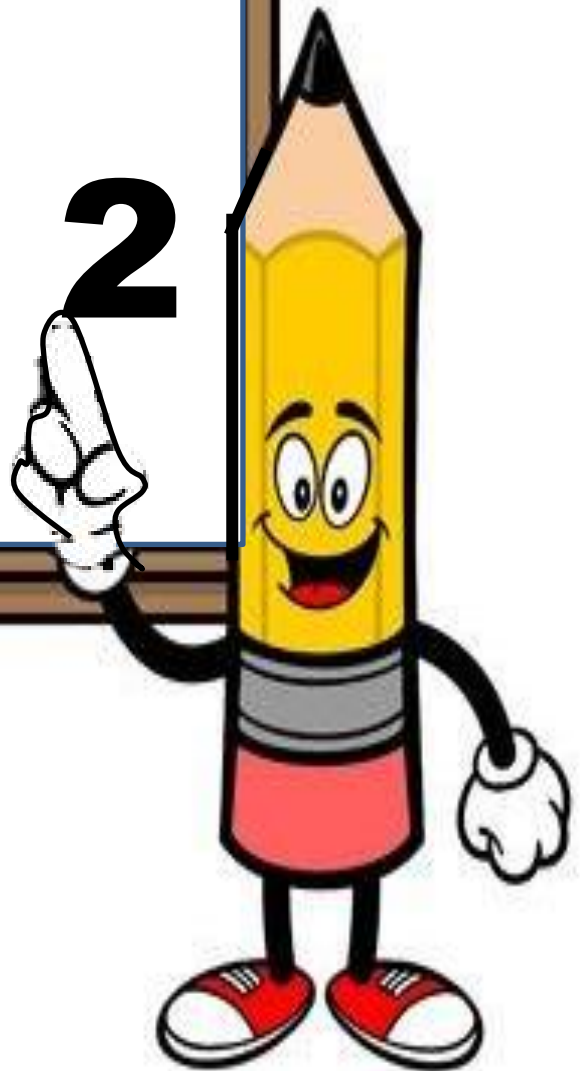
3. What is your goal?

4. Last time, you used 6 spoons of vinegar and 1 spoon of baking soda. What will you do differently this time?

5. What happened? Why do you think that happened?



Day # 2



Name: _____ Week 28 Day 2 Date: _____

BCCS-B

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Chemical Magic Guided Notes & Exit Tickets
Mystery 5: Why do some things explode?

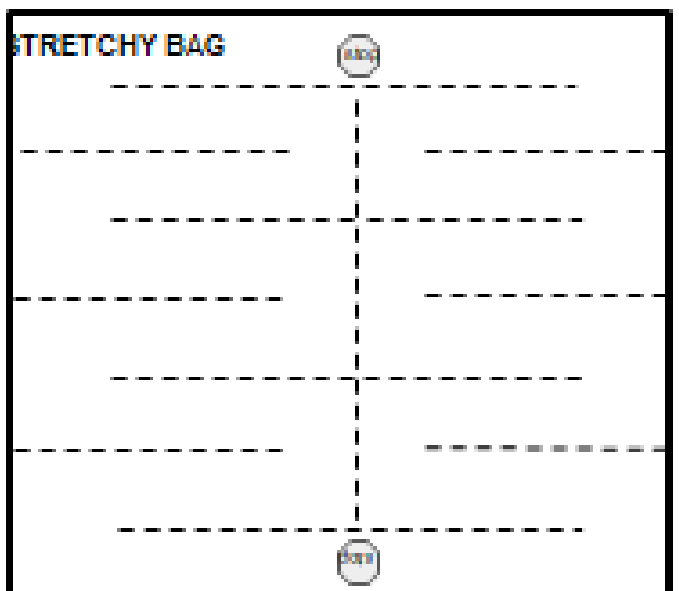
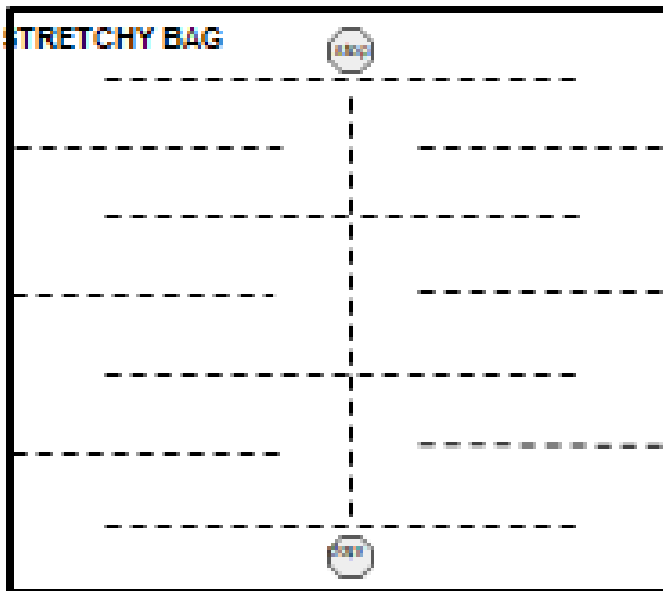
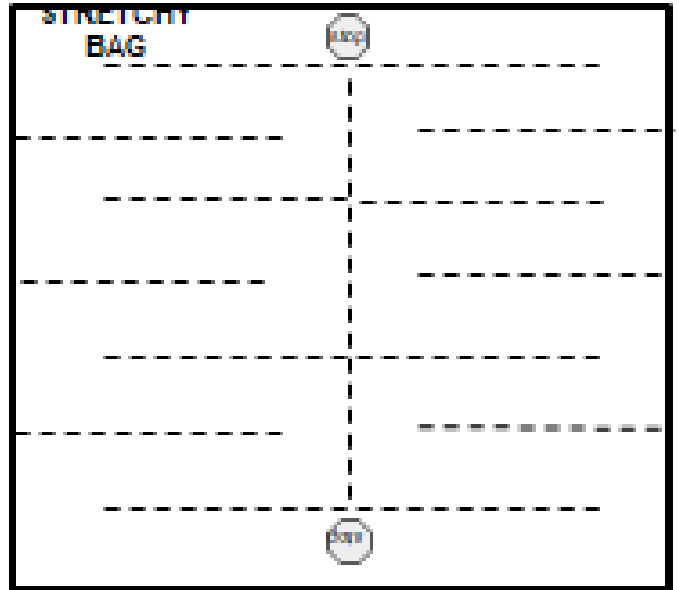
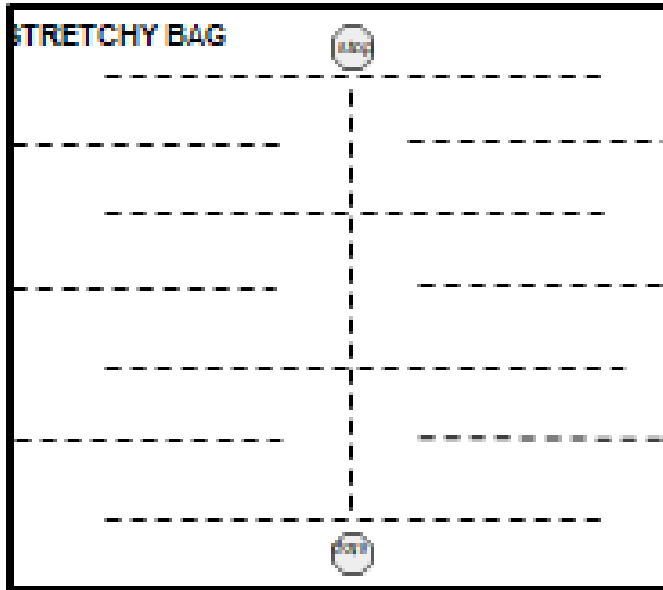
Day 2:

Bonus Activity: Notes-

STEP 10: Discuss-Do you think this model is similar to what actually happened? Explain.

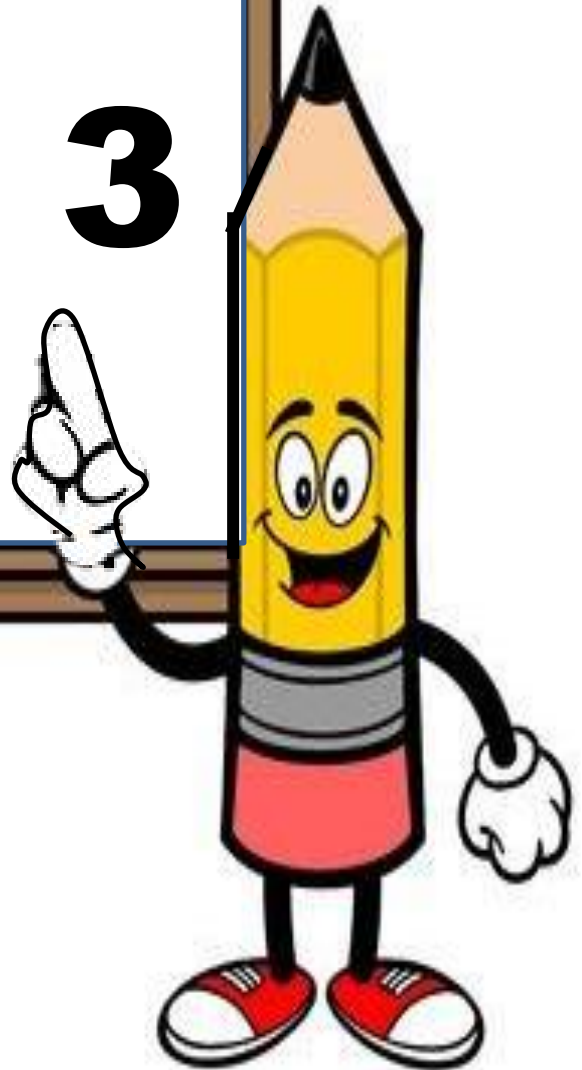
Exploration: Notes-

Stretchy Bag Templates





Day # 3



Name: _____ Week 28 Day 3 Date: _____

BCCS-B

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End of Mystery Assessment

1. Circle true or false for each statement about explosions.
 - a. TRUE or FALSE? (circle one) Explosions are always dangerous.
 - i. If this statement is false, explain what you think makes it false. _____

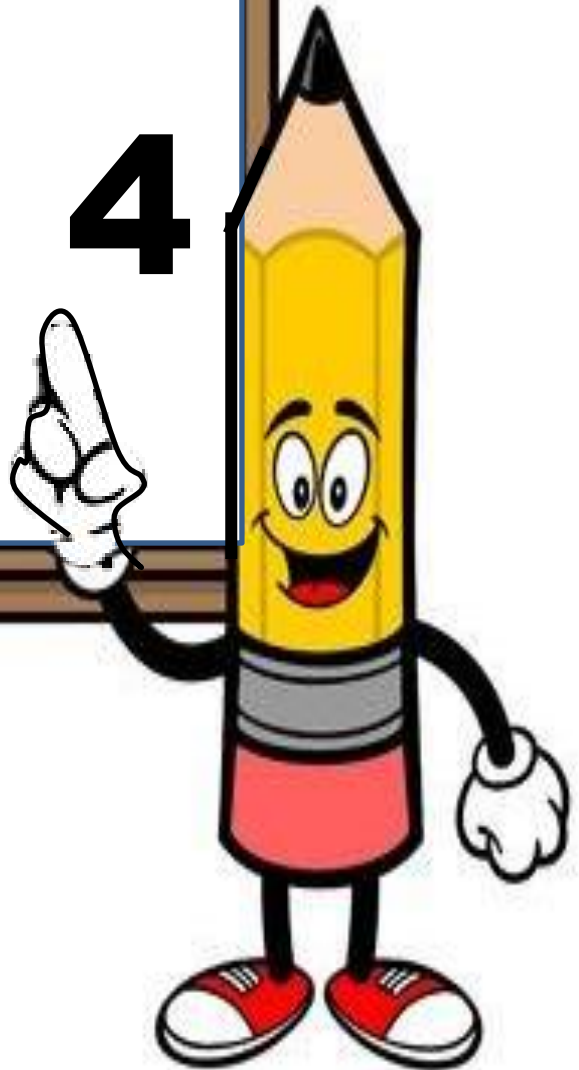
 - b. TRUE or FALSE? (circle one) Explosions are always used to destroy things.
 - i. If this statement is false, explain what you think makes it false. _____

 - c. TRUE or FALSE? (circle one) Explosions are caused when gas is produced.
 - i. If this statement is false, explain what you think makes it false. _____

2. How can we use a **particle model** (a model of things too small to be seen) to explain why the bag of vinegar and baking soda inflated?
 - a. A particle model cannot explain why the bag of vinegar and baking soda inflated because there weren't things too small to be seen within the bag. We could see the bag expand. Therefore, a picture with labels showing the bag expanding is enough to explain what happened.
 - b. A particle model can explain why the bag of vinegar and baking soda inflated and popped because gas particles, that we cannot see, began to fill up the bag, causing it to expand or inflate until there was no more space and it popped.



Day # 4



Scholars, today we will be introduced to the next mystery.