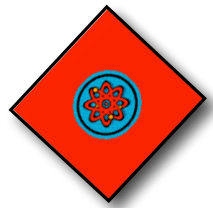


# What's The Matter: WebQuest



Answer these Essential Questions during your quest:

**Site 1:** Click on the link below, watch the video & answer the following questions.  
<http://studyjams.scholastic.com/studyjams/jams/science/matter/solids-liquids-gases.htm>

1. What is matter?

2. As a substance goes from Solid to Liquid to Gas, list 3 **PHYSICAL** characteristics that change it goes from one state of matter to another?

1.

2.

3.

**Site 2:** Click on the following website and read the page. After reading the [States Of Matter](http://chem4kids.com/files/matter_states.html) answer the questions. [http://chem4kids.com/files/matter\\_states.html](http://chem4kids.com/files/matter_states.html)

3. What is the OTHER name for a STATE of Matter?

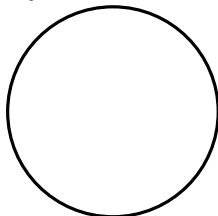
4. When the temperature of a system **goes up**, what happens to the atoms and molecules of a substance in a system?

5. Draw the **ENERGY** diagram graph of what happens to the energy in a substance when it changes from solid to liquid to gas.

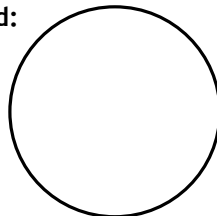
**Site 3: GOTO:** [http://www.harcourtschool.com/activity/states\\_of\\_matter/](http://www.harcourtschool.com/activity/states_of_matter/)  
Click on a state of matter to view the **ENERGY** of the particles.

6. Draw the particles if each of the three states of matter:

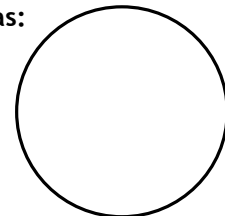
Solid:



Liquid:



Gas:



7. In Liquids, why are particles able to move past each other and change their shape?

8. In which state of matter do the particles move the fastest? What causes this?

9. In which state of matter would an object's temperature be the COLDEST? WHY?

**Site 4: Watch this Video about PHYSICAL & CHEMICAL CHANGES!**

<http://studyjams.scholastic.com/studyjams/jams/science/matter/changes-of-matter.htm>

- 10. What is physical change? What hasn't changed?
  
- 11. What is a chemical change? How is this different from a physical change?
  
- 12. Which of these cannot be reversed (most of the time)?

**Site 5: GOTO this link. Watch the Video and Read the Webpage that follows to answer the questions below:** <https://www.generationgenius.com/learn-physical-and-chemical-changes/>

- 13. What material(s) went through a **CHEMICAL CHANGE**?
- 14. What material(s) went through a **PHYSICAL CHANGE**?
- 15. Explain 4 signs that something is going through a **CHEMICAL CHANGE**.

**Site 6: GOTO this link, Choose a #1-4 and click PLAY. What did you observe? Check the boxes below**

[http://www.glencoe.com/sites/common\\_assets/science/virtual\\_labs/E03/E03.html](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E03/E03.html)

Events	1	2	3	4
Shape Change				
Color Change				
Bubbles Formed				
Odor Production				
Heat Given Off				

Events	1	2	3	4
Size Change				
Change of State				
New Substance Formed				
Sound Production				
Light Production				

- 17. Which of these are signs of a **CHEMICAL CHANGE**? **CIRCLE THEM ABOVE!**

**Sites 7-9: Now that you have reviewed the three states of matter, SEE IF YOU REALLY KNOW THE PROPERTIES & CHANGES OF THE THREE STATES OF MATTER???**

**Click Here to check your Vocabulary Knowledge!**

<https://www.learninggamesforkids.com/changes-in-matter-games/changes-in-matter-matchit.html>

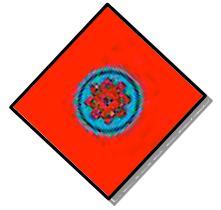
**Take the self quiz. Write your results here: Score: \_\_\_\_\_**

[http://glencoe.mcgraw-hill.com/sites/0078617650/student\\_view0/chapter3/section1/self-check\\_quiz\\_eng\\_.html](http://glencoe.mcgraw-hill.com/sites/0078617650/student_view0/chapter3/section1/self-check_quiz_eng_.html)

**Lastly, try your hand at Jeopardy & Write your Total earnings Here: \_\_\_\_\_**

<https://jeopardylabs.com/play/physical-chemical-changes>

# What's The Matter: WebQuest



Answer these Essential Questions during your quest:

Site 1: Click on the link below, watch the video & answer the following questions.

<http://studyjams.scholastic.com/studyjams/jams/science/matter/solids-liquids-gas.es.htm>

1. According to this video, what is matter?

2. **PHYSICAL** characteristics of a substance change as it goes from one state of matter to another. What three (3) **defining characteristics** are said to be **DIFFERENT** for each state?

1.

2.

3.

Site 2: Click on the following website and read the page. After reading the [States Of Matter](#) answer the questions. [http://chem4kids.com/files/matter\\_states.html](http://chem4kids.com/files/matter_states.html)

3. A **STATE** of Matter can also be called a what?

4. When the temperature of an object or system increases, what happens to the atoms and molecules of that substance?

5. **ABOUT THE PHYSICAL:** Draw the **ENERGY PHASE CHANGE DIAGRAM/GRAPH** of what happens to the energy in a substance when it changes from solid to liquid to gas.

6. Watch the **VIDEO** at the bottom. Where exactly in our solar system is this water found?

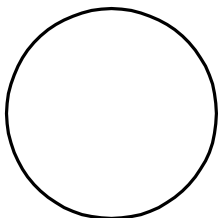
7. Knowing the order of its location from the sun, **DESCRIBE TWO PROPERTIES** of the water that should be different than ours.

Site 3: **GOTO:** [http://www.harcourtschool.com/activity/states\\_of\\_matter/](http://www.harcourtschool.com/activity/states_of_matter/) Click on a state of matter to view the **ENERGY** of the particles.

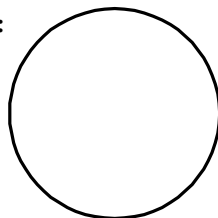
8. Describe two properties that allow the particles of a liquid to move past each other and change their shape?

9. Draw the microscopic particles inside each of the three states of matter:

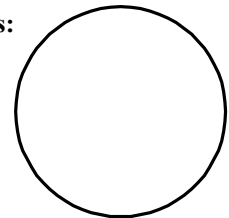
Solid:



Liquid:



Gas:



10. In which of these states of matter do the particles move the fastest? What causes this?

11. In which state of matter is the temperature the COLDEST? WHY?

Site 4: Watch this Video about PHYSICAL & CHEMICAL CHANGES!

<http://studyjams.scholastic.com/studyjams/jams/science/matter/changes-of-matter.htm>

12. What does NOT change when a physical change occurs? Explain

13. How is a CHEMICAL CHANGE most different from a physical change? Explain.

14. Which of these cannot be reversed (most of the time)?

Site 5: GOTO this link. Watch the Video and Read the Webpage that follows to answer the questions below: <https://www.generationgenius.com/learn-physical-and-chemical-changes/>

15. Read & Explain one example of a CHEMICAL CHANGE?

16. Read & Explain one example of a PHYSICAL CHANGE?

17. Classify Each of the Following as a CHEMICAL or PHYSICAL CHANGE?

Toasting Bread

Whipping Egg Whites

Site 6: GOTO this link, Choose a #1-4 and click PLAY. What did you observe? Check the boxes below [http://www.glencoe.com/sites/common\\_assets/science/virtual\\_labs/E03/E03.html](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E03/E03.html)

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17. Which of these are signs of a CHEMICAL CHANGE? CIRCLE THEM ABOVE!

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