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EDUC 301

Assignment #1: States of Matter Scavenger Hunt

Grade Level: Cycle 2, Grade 3

Competencies:

Science and Technology Competencies

- "Competency 1: To propose explanations for or solutions to scientific or technological problems" (Éducation et Enseignement Supérieur du Québec, 2019c, p. 166).
- "Competency 3: To communicate in the languages used in science and technology" (Éducation et Enseignement Supérieur du Québec, 2019c, p. 170).

English Language Arts Competencies

- "Competency 1: To read and listen to literary, popular and information-based texts" (Éducation et Enseignement Supérieur du Québec, 2019b, p. 74).

Cross-Curricular Competencies

- "Competency 2: To solve problems" (Éducation et Enseignement Supérieur du Québec, 2019a, p. 18).
- "Competency 6: To use information and communications technologies (ICT)" (Éducation et Enseignement Supérieur du Québec, 2019a, p. 28).

Objectives:

1. The student will *define* the different states of matter and associated concepts.
2. The student will *recall* important temperatures.

3. The student will *classify* various objects in the different states of matter through illustration.
4. The student will *identify* different definitions by listening and reading information-based websites.
5. The student will *explain* important changes in the states of matter.
6. The student will *differentiate* between reversible and irreversible matters.
7. The student will *design* a change in the state of matter.

Name: _____

States of Matter Scavenger Hunt

Click on the links to start the Scavenger Hunt!

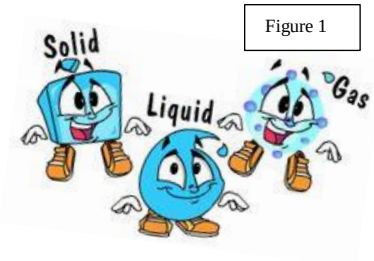

Figure 1

Part A: Different states of matter!

Go to www.abcya.com/states_of_matter.htm

1. Matter is anything that has _____ and _____.

2. Mass is the amount of _____ an object has, and volume is the amount of _____ an object takes up.

3. What is the difference between a solid and a liquid? Think of matter, volume and shape. Provide one example for both.


Figure 2

_____

_____

_____

_____

_____

4. Define what a gas is and give one example (think of matter, volume and shape).

_____

_____

_____


Figure 3

5. After completing the activity **once**, draw the following items in the correct category according to what you have learned.

Water	Book	Maple syrup	Water vapor (steam)	Ice cube	Wind (air)

Solid	Liquid	Gas

Hooray! You finished Part A.
Now let's learn more about what happens with matter!

Part B: Changes in states of matter!

Go to www.dkfindout.com/us/science/solids-liquids-and-gases/

Figure 4

Changing states

Figure 5

Reversible and irreversible changes

Click the two images on the website to get the information!

For question 1 and 2, use degrees Celsius (˚C).

Figure 6

Figure 7

1. Water turns to ice at _____.

2. Water turn to water vapor at _____.

3. When a liquid is _____ to its freezing point, it turns into a _____.

4. When a solid is _____ to its boiling point, it turns into a _____.

5. How do you boil water? Describe what happens to the water when it is being boiled!

6. What is the difference between reversible matter and irreversible matter? Provide example of each and explain (you can draw it in the box).

7. Draw how an ice cube becomes water vapour. Detail the states of matter and the cause for change in state.

You finished the scavenger hunt!

References

Éducation et Enseignement Supérieur du Québec. (2019a). Chapter 2: *Cross-curricular competencies*. Retrieved from http://www.education.gouv.qc.ca/fileadmin/site_web/documents/education/jeunes/pfeq/PFEQ_competences-transversales-primaire_EN.pdf

Éducation et Enseignement Supérieur du Québec. (2019b). Chapter 5: Languages. Retrieved from http://www.education.gouv.qc.ca/fileadmin/site_web/documents/education/jeunes/pfeq/PFEQ_english-language-arts-primaire_EN.pdf

Éducation et Enseignement Supérieur du Québec. (2019c). Chapter 6: *Mathematics, science and technology*. Retrieved from http://www.education.gouv.qc.ca/fileadmin/site_web/documents/education/jeunes/pfeq/PFEQ_science-technologie-primaire_EN.pdf

Picture References

Figure 1 https://www.pinterest.ca/areganbartz/solids-liquids-and-gases/

Figure 2 http://www.p2p2p2.com/Cartoon-Rock-Clip-Art30ywkgwprw/

Figure 3 https://www.pinterest.ca/pin/527695281312819533/?lp=true

Figure 4 www.dkfindout.com/us/science/solids-liquids-and-gases/

Figure 5 www.dkfindout.com/us/science/solids-liquids-and-gases/

Figure 6 https://www.fotosearch.com/CSP990/k11107337/

Figure 7 http://clipart-library.com/boiling-water-cliparts.html