**Essential Questions**

1. What is the difference between the forms of matter?
2. How does the temperature effect movement of molecules?
3. What criteria would you use to classify each form of matter?

**Unifying Text**

What is the World Made Of? By Kathleen Weidener

**Resources**

Websites

\*<http://www.aquariumofpacific.org/downloads/ed_1ssIceCream.pdf>

[\*http://home.southernct.edu/~gravess1/phd\_online/appendix\_d.pm.pdf](http://home.southernct.edu/~gravess1/phd_online/appendix_d.pm.pdf)

[\*http://www.nyu.edu/pages/mathmol/textbook/statesofmatter.html](http://www.nyu.edu/pages/mathmol/textbook/statesofmatter.html)

\*<http://www.chem4kids.com/files/matter_gas.html>

\*<http://chemistry.about.com/od/lecturenotesl3/a/statesmatter.htm>

\*<http://www.fossweb.com/modulesK2/SolidsandLiquids/activities/changeit.html>

\*<http://www.superteacherworksheets.com/matter/matter-pictures.pdf>

[www.stanford.edu/group/henrysplace/Activities/spr/1\_Icecream.doc](http://www.stanford.edu/group/henrysplace/Activities/spr/1_Icecream.doc)

\*<http://www.superteacherworksheets.com/matter/matter-sort.pdf>

\*<http://www.superteacherworksheets.com/songs/matter-song.pdf>

\*<http://live.psu.edu/youtube/gxYJHrvdLyU>

Other

\*Weidner Zoehfeld, K., & Meisel, P. (1988). *What Is the World Made Of?* (pp. 1-31). N.p.: Harper Collins.Estacio, S. M. (n.d.). What is Matter. In *MathMol*. Retrieved April 6, 2012

\*Snyder, I. (2003 ). *Milk to Ice Cream*. New York, NY: Children's Press.

\*Penn State. (n.d.). Penn State's Creamery, from the Cow to the Cone. In *Penn State*. Retrieved April 6, 2012.

**Objectives**

\*The student will be able to apply their knowledge of the three types of matter by contracting a picture of each form of matter. This is the application level of understanding.

\*The student will be able to identify when fluids freeze at different temperatures and this is the understanding level of blooms taxonomy.

\*The student will demonstrate that they now what the properties of a liquid are by showing their rational for why a substance passes for fails the properties of matter. This is the application stage of

**Blooms taxonomy**

\*The student will be able to differentiate the gas from of matter from the other forms of matter. This is the analyzing stage of Bloom’s taxonomy.

\*The student will be able to construct ice cream by using the different states of matter and this is the creating state of blooms taxonomy.

**Lesson Titles**

What is Matter?

Solid Matter Freeze Out

Liquid

Gas

Changing Matter to Another Form

**GLCES**

P.PM.02.12

R.WS.02.09.

M.UN.02.09

W.PR.02.05

P.PM. 02.14

E.FE.02.13

R.MT.02.03

E.FE.02.13

R.CM.02.04

E.FE.02.14

R.I.T.02.04

2-G2.0.1.

**Vocabulary Words**

Matter

Solid

Liquid

Gas

Heat

Melting

Freezing

Freezing Point

Thermometer

Enduring Understandings

\*Everything has matter

\*Everything is in a form of matter

\*Molecules behave differently in the 3 forms of matter