



Understanding
Others

Grade Two

What's the Matter?



Serving the Needs of Humanity

This Super Unit is a structured inquiry into helping the learner understand how we can build and share our scientific knowledge to help others understand our world. Learners will experience scientific provocations around changing states of matter. They will then use the Scientific Method to investigate and explain these phenomena in a video presentation.

The Scientific Method is



Highlights of Learning Experiences

SuperUnit Launch: Students will experience scientific provocations and observe how the scientific method is used to answer a question. Students will observe how one can share their scientific knowledge with others.

Field Trip: At the Binh An Water Treatment Plant students will observe the process of removing solids from liquids.

Guest Speakers: Survey MS Science Teacher and Students to find out how they learn science best.

Projects: River-water Filtration Challenge and Ice Melting Machine Challenge in the Makerspace.

Core Values: Academic Excellence and Dedicated Service.

SuperUnit Celebration: Teaching MS Science Students about their learning with a live science demonstration and a how-to video explanation.



Focus on Learning by Subject

Science: States of matter, changing states of matter, the Scientific Method

SS: Planning a public speaking presentation

English: Planning and scripting a How-To-Video and reading Non-Fiction

Math: Becoming fluent with addition and subtraction, using measurement and collecting data

Art: Changing states of art materials: Melting crayon collages, marbled paper, crayon resist watercolor

Drama: Performance and presentation skills

Music: Compose and perform a song about being a scientist. Incorporate creative movement

PE: Experimenting with density of materials in the swimming pool(sinking and floating), flag football

Vietnamese: (Stand alone)

used to build knowledge.



Questions to Ask your Child

How do you know something is a solid, liquid or gas?

Can you find examples of solids, liquids or gases at home?

How can states of matter change?



Home Learning

Watch Bill Nye the Science guy online and have a conversation about the science you experienced.

Repeat an experiment we did in class and have your child explain the science behind it.

Bake something and observe changes in matter.

Get ideas from the homework grid.



Suggested Community Extensions

Take a walk and find examples of condensation and evaporation.

Visit a science museum.



Key Vocabulary

Hypothesis, solid, liquid, gas, smoke, condensation, evaporation, matter, temperature, reversible and irreversible changes, freezing, property, mass, volume, texture, particle, opaque, transparent, translucent.



SuperUnit Launch: Action Science News Live! Monday, October 23, 2017 in the ES Flex Room.

Field trips: Binh An Water Treatment Plant (Early November).

Guest speakers:

- MS Science Teacher and Student Interviews. (Early November in the classroom)

SuperUnit Celebration:

Action Science News Presentations, December 11-15th, 2017,
in MS Classrooms



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