



**WELCOME!**

7<sup>th</sup> Grade Science with Mrs. Hill

# MEET THE TEACHER

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- Graduated from BYU-I
- Fifth Year Teaching
- Why teaching?
- Why Science?





# COMMUNICATION

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- E-mail [jhill@kyrene.org](mailto:jhill@kyrene.org)
- Phone 480-541-6127
- Website
- Google Classroom
- Check Grades Often!



I'll do my best to respond within 24 hrs!

# GRADES & ASSIGNMENTS

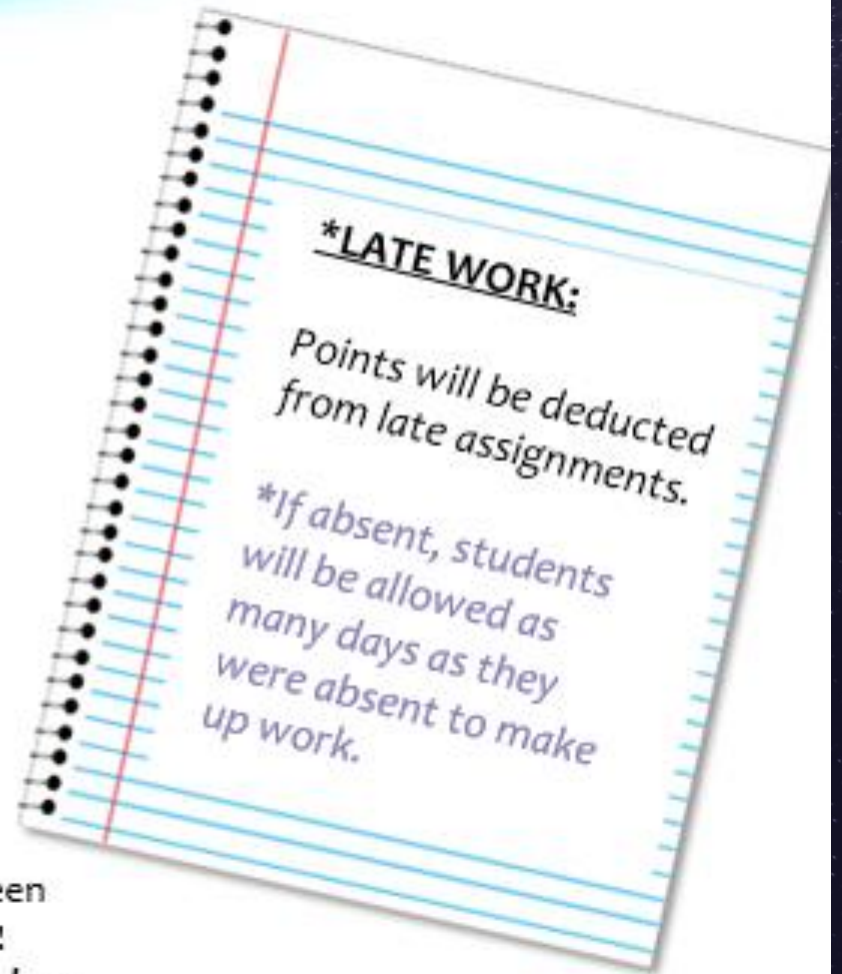


## 80% assessments

Assessments can be quizzes, tests, larger projects, and final lab write-ups.

## 20% Class & homework

There is a positive correlation between classwork and assessment scores!  
*Your amount of homework will depend on your effort/speed in class.*



# Year at a Glance

## Quarter 1

*Safety*

*Scientific Method*

*Ecology*

- Classification of Living Things
- Ecosystems
- Population Dynamics
- Food Chains
- Food Webs
- Environmental Issues

## Quarter 2

*Astronomy*

- Relative positions of Earth, Sun, & Moon (phases)
- Relationship between tides & moon
- Seasons
- Visible constellations
- Galaxies
- Sun's structure

## Quarter 3

*Geology*

- Classify rocks & minerals,
- Rock cycle
- Layers of the earth (core, mantle, crust)
- Erosion & deposition
- Fossils

## Quarter 4

- Geological Time
- Plate tectonics
- Convection currents
- Mountain building
- Faults
- Earthquakes

# MATERIALS

## Must Have

- Pencils
- Folder
- Notebook
- Lined Paper
- Highlighters
- Safety Contract



# Composition Book Example

\* Luster - how a mineral reflects light

metallic

looks like a metal

nonmetallic

looks earthy, waxy, silky, or glossy

\* Streak - mineral's color in powdered form, can be different than its color

\* type of breakage

cleavage - mineral breaks along flat surfaces in a pattern

fracture - mineral breaks unevenly

## Hardness

\* resistance to being scratched

NOT THE SAME AS BREAKING!

A mirror breaks easily, but not scratches easily

## Mohs Hardness Scale

Hardness	Mineral	Hardness	Mineral
1 (softest)	Talc	6	Orthoclase
2	Gypsum	7	Quartz
3	Calcite	8	Topaz
4	Fluorite	9	Corundum
5	Apatite	10 (hardest)	Diamond

## Density/Specific Gravity

\* amount of mass in a given space/volume

## Special Properties

\* magnetic

\* fluorescent (glows under UV light)

## Mineral Formation

\* occurs through crystallization

\* atoms form a solid in a repeating pattern

occurs in:

- salt water or fresh water processes
- interaction with magma



# Depth and Complexity Icons

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The Depth and Complexity Icons are visual prompts designed to help students go beyond surface level understanding of a concept and enhance their ability to think critically. These critical thinking tools help students dig deeper into a concept (depth) and understand that concept with greater complexity.



# Parent/Gaurdian Roles

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- Monitor Grades
- Encourage students to ask for help
- Encourage good study habits



CHALLENGE!

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Why does Earth  
experience seasons?

Grab a sticky note (or two), write your name on it, and turn it in to the hand in tray. Parents are welcome to help. Rules: you can only use your brains, no phones!