

# 6-8

## Rocks and Minerals!

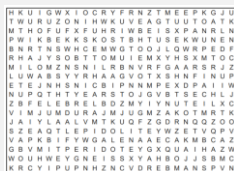
How do geologists like to relax?  
In rocking chairs, of course!

- ✓ Try to read with a family member or on your own, for at least **30 minutes each day!**
- ✓ Spend **30 minutes** of your day being **physically active!**

### Literacy

- In Literature, rocks often symbolize strength and stability; an unwavering presence – someone who is, ‘solid as a rock’. This describes their character – not physical appearance.  
Write a journal style response to this idea, who do you know that could be described this way? Who is your rock? What about them makes them a solid, stable person for you? Think about specific things they say and do to be this for you.
- Now – let your ‘solid as a rock’ person know! Be creative in your presentation, but let that person know how appreciated they are.  
Ideas: Make a card, write a note, email them, post on social media, make a video, put a sign on their lawn – the possibilities are endless! 😊 Choose what works for you.  
Share what you did with your teacher if you are comfortable doing so.

- Try this Rocks and Minerals word search →



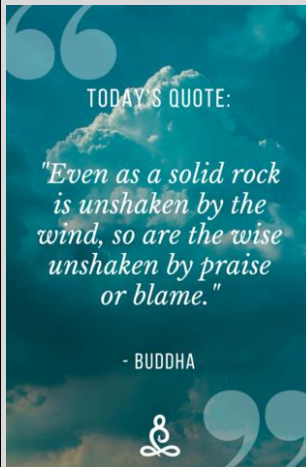
### Numeracy

#### MineCraft Math Activity for Rocks and Minerals

**Task:** You are asked to build a structure in MineCraft (such as a house, hut or a farm, etc). This can be in the MineCraft world or on paper. Your main materials are to be minerals and other materials found underground such as granite, diorite, andesite, quartz, and obsidian. You may use other building materials you find necessary, but the focus should be on rocks and minerals, if possible.

#### Requirements for your structure:

1. roof
2. floor
3. walls (as many as you would like)
4. at least one door
5. at least two windows
6. at least three light sources
7. a fence



Week 7

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#### Optional:

1. stairs (inside or outside of your structure)
2. garden
3. animals
4. water (stream, lake, river)
5. furniture

\*The structure does not have to be above ground.

#### Math component of the assignment. 🧐

Hint: Each block is 1 square metre.

1. Calculate the perimeter and/or area of the roof.
2. Calculate the perimeter and/or area of the floor.
3. Find the perimeter and/or area of at least one wall.
4. What is the perimeter of your fence?

#### \*Bike Contest!

This is the last week to work on your entry to win a bike! Complete a reflection on how you are staying physically active, keeping a positive mindset, and following the K.I.D.S matrix at home. Submissions can be sent to your home room teacher by email, and we will make sure that it gets to Mr. Hemphill!

## Science

- Test your memory of the rock cycle with these two pages. Send your answers to your teacher – or check the school website next week.
- Make your own homemade rock candy! (ask an adult first)

### SHOW what you KNOW THE ROCK CYCLE

1. Identify the type of rock associated with the picture.



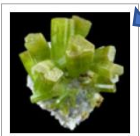
Homemade Rock Candy

- Use the chart below to see how many minerals you have at home. In these common forms, you may have more than you think! \*Estimate first – how many do you think you will find?

Mineral or Mineral Product	Uses	Object Location
aluminum	aluminum foil, cosmetics, beverage cans, deodorant, hand lotion, antacids, cooking pots	
beryllium	fluorescent lamps	
chromium	chrome fixtures (cars, bicycles, lamps, kitchen, etc.), stainless steel	
copper	wires, pipes, cooking pots, old gutters and roofs, brass, pennies	
fluorite (fluoride)	toothpaste, drinking water	
gold	hardware, jewelry, computers, electronics	
iron	steel, nails, cast iron	
potassium	potassium permanganate, de-icers	
quartz	table salt, food preservatives, de-icers	
tin	cosmetics, hair dye, steel, wrought iron	
zinc	car batteries, computers, fuel tanks, TV tubes, leaded glass, x-ray shields, fishing sinkers	
mica	sheetrock, paints, hair dye, cosmetics, soap, electronics	



Aquamarine



Pyromorphite

- This website has a full library of minerals; including photos, common uses, where they are found...lots of neat information!

## Fossils - Did You Know?

### Some Fossils Are Huge

In 2017, scientists discovered the remains of what they now believe to be the world's largest land animal. Called *Patagotitan mayorum*, the fossilized remains suggest that the long-necked creature was 120-feet long, and possibly weighed 69 tonnes, over 150,000 pounds. Even creepy-crawlies were larger in pre-history. University of Manitoba paleontologists found the remains of a 28-inch long trilobite while searching for fossils near Hudson Bay.

### Oldest Fossils Are Bacteria

Scientists studying sedimentary rocks on Greenland found small graphite microparticles believed to be the fossilized remains of byproducts produced by ancient bacteria, one of the earliest forms of life from 3.7 billion years ago.

### Sorry, Cars Don't Run on Dead Dinosaurs

Massive lumbering dinosaurs did not create fossil fuels. Rather, it was microscopic organisms called diatoms. Fossil fuel, a non-renewable resource, formed from these tiny creatures dying in large numbers. Pressure and temperature on the sedimentary rock which covered their remains converted the remaining carbon from their bodies into fuel.

Source: <https://sciencing.com/10-fossils-2713.html>

## Social Studies

- Use the following Interactive Link that provides both slide shows and quizzes to test yourself on Landforms! Landforms are an important part of the Grade 8 Geography Unit!

<https://www.scholastic.com/teachers/activities/teaching-content/rocks-minerals-and-landforms-12-studyjams-interactive-science-activities/>



## ART

Paint a rock!



Paint several rocks!



Build something with rocks!

