

Ms. Sadler Mean's grade 8 Class

Week Nine of Continuation of Learning

Theme: Sun Safety and Weather

Literacy: What if I said that you could create lightning in your mouth? Want to try? But first, create a written response to the title: *Lighting in Your Mouth*. Write for ten minutes and see where your thoughts take you. If you revise and re-do, you will have more clarity of purpose and can elaborate more about your story or narrative. I'd love to see your write-ups, so send them along.

What you need: A mirror, a dark room, wintergreen LifeSavers.

What to do: Turn off the lights and have students wait until their eyes have adjusted to the dark. Bite down on a wintergreen candy while looking in the mirror. Chew with your mouth and you'll see that the candy sparks and glitters. What's happening? You are actually making light with friction: triboluminescence. As you crush the candy, the stress creates electric fields, like electricity in a lightning storm. When the molecules recombine with their electrons, they emit light. Why wintergreen candy? It converts ultraviolet light into visible blue light, which makes the "lightning" brighter to see. If students aren't seeing it in their own mouth, have them watch the video above.

People and animals are often afraid of storms, and lightning in particular. Create a how-to guide with at least four different ways teaching your reader how to remain calm during a lightning storm. Illustrate it if possible, and then try your hand at creating a lightning jar! You may need to pick up a few supplies:

<https://www.youtube.com/watch?v=8ioZUPrpSMU>

Access some interactive writing worksheets @

<http://www.readwritethink.org/classroom-resources/student-interactives/>

Science:

Check out these twenty weather STEM activities! Just copy and paste this web address: <https://thehomeschoolscientist.com/weather-stem-activities/>

Also, have you ever wondered why the winds blows? What are some possible explanations? See if you can come up with at least three different theories. For the answer, check out this YouTube video explaining why. Were any of your theories correct? <https://www.youtube.com/watch?v=zBU23ZM6EO8>

Did you know that there are different "categories" of wind?? How many of these vocabulary words have you heard before? What kind of wind are you experiencing today?

- **Calm** (< 1 mph)
- **Light Breeze** (4-7 mph)
- **Fresh Breeze** (18-24 mph)
- **High Wind** (31-38 mph)
- **Gale** (39-46 mph)
- **Storm** (55-63 mph)
- **Hurricane** (≥ 74 mph)

DID YOU KNOW: WIND EDITION!!

*Many sports and recreational activities make use of the wind, these include kite boarding, wind surfing, sailing and paragliding.

*Anemometers are used to measure wind speed. Make your own anemometers @ <https://www.sciencekids.co.nz/projects/windspeed.html>

Social Studies:

Most experts agree that the radical weather we've been experiencing lately is most likely due to Global Warming and overall human activity. Read the article about Global Warming at <https://www.kidzworld.com/article/17859-the-kids-guide-to-global-warming>, and check off how many of the following things you are currently doing (or *could* do) to reduce your impact on the Earth:

- Plant trees

- Start a seed bank (keep the seeds of many varieties of plants stored away safely)
- Switch every light in your house to an energy-saving bulb
- Reduce, reuse, recycle
- Wear a sweater instead of turning up the heat in your house
- Wear lighter clothing when it's hot instead of turning on a fan
- Turn lights, computers and all your chargers off and unplug them when they're not in use
- Only do full loads of laundry
- Take shorter showers
- Skip the car ride and use your bike, or walk or take the bus
- Don't buy bottled water; drink tap water, and filter it if you like
- Eat lower on the food chain (less meat) and eat fewer processed foods

Numeracy: Here are the interactive Canadian Math Websites that both teach you concepts, provide tutorials as well as quizzes. Remember to try and complete one half-hour or more of Math and Literacy every day, and to get thirty minutes of exercise if possible!

<https://ca.ixl.com/math/grade-8>

https://www.studypug.com/ca/grade8?camp_id=274470753&grp_id=119736841203560

And here are your puzzle for this week:

VIRAL MATH PROBLEM

$$9 - 3 \div \frac{1}{3} + 1 = ?$$

Can You Solve This?

$$7 + 7 \div 7 + 7 \times 7 - 7 =$$

Meme of the week:

