Student Name:		·····	Date:	
Course: 7th grade Science	_ Teacher: <u>Lee</u>			
Teacher Office Hours: 10-12 Other form of contact if help is		acher Email: <u>nlee@</u> r	hmail.org	
Instructions to complete the stu Packet is labeled by day you have If you have questions see above.		nplete all assignment	s. Work at your own pa	ice.
Instructions to submit work:				
If possible take pictures and su to school.	bmit to teacher via	email or canvas. If ı	not possible keep unt	il we returi
<u>Technology</u>	Walter State of State			
Laptop issues: please email the the following information:	help desk- helpdes	k@rhmail.org or pho	one at (803)981-3531 a	ind include
Student ID number (ex: RS12345)			•
Parent/Guardian na	me, Parent/Guardian e	mail and phone numbe	r contact information.	
School Name / Tead	her name			
A description of the	problem with the co	mputer		
The Rock Hill Schools Technology	y Department Staff w	ill be on call between	the hours of 8AM - 8PI	VI
		e en engan, en		
Launchpad: https://launchpad.clas	sslink.com/rockhill	Canvas: https://roo	ckhill.instructure.com/lo	gin/canvas
** For more information on remote	learning, please visit	:		
RRMS website at https://www.rock	-hill.k12.sc.us/domair	<u>1/2596</u> or		

RHS District website at: https://www.rock-hill.k12.sc.us/elearning

hill.instructure.com/courses/52203/assignments/1363407?module_item_id=1635448

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©17 Advanced - 6(A) - Chumley - 19-20 > Assignments > Lesson #8 April 1, 2020

4/1/20 Lesson &

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Lesson #8 April 1, 2020



Related Items

(¬) SpeedGradei

deethe link is below. Take note of the emotions you check. Today your objective will be to identify and express your emotions. Gomplete the google

https://docs.google.com/forms/d/1t1GSUrp0EPmVEWI.rwK27QAz4zjpQ6dmfwLnhM_w_fp see the attached pages

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You will create a picture or write a story about why you have been feeling that emotion. After you complete the google doc, choose the emotion you have been feeling the most.

the reasons or thigs that make you feel that way. poster. Your emoji should represent the emotion. Around the emoji you should include If you choose to do a picture you may either draw or create on your laptop an emoji

Need help:

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Link: How to draw emojis 🗷



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from tray 2 Processing job

Copy of Copy of Distance Check - In - Google For Job sent to the printer



13

Distance Check - In

* Required

Toda	y I am (check all that apply)
Chec	k all that apply.
H	lappy
E	xcited
☐ s	ad
A	nxious
☐ H	lungry
☐ s	illy
T	ired
L	onely
В	ored
□ 0	verwhelmed
)ther:	

4.	How is your digital learning going?
	Mark only one oval.
	I am on track, and all my work is complete so far
	I am doing ok, I have done some work, but still working on a few things
	I have done a little, but I am definitely falling behind
	I have hardly done any, because I have other responsibilities.
	I have hardly done any, because I don't want to.
•	I have hardly done any, because I am so confused.
5.	Today I am planning to (list school plan)
6.	Today I am planning to (list something fun you are going to do)

7.

It would be helpful if the following checked do our best to check in with you today. You	ou may also email the person.
Check all that apply.	
Homeroom teacher	
LA Teacher	
Science Teacher	
History Teacher	
Math Teacher	
PE Teacher	
Music Teacher	
Unified Art Teacher	
Special Education Teacher	•
School Counselor	
Social Worker	
Nurse	
Principal	
Vice Principal	
Other:	
	-

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Google Forms

EMOTIONS VOCABULARY Surprised Overwhelmed Nervous Lonely Scared Enraged (CC) Ashamed Hysterical Lovestruck Shocked Disgusted Gleeful Exhausted Shy Silly Ancèpus Hopeful Devious Depressed invisible

Complete warm-up It is graded.

Warm-up:

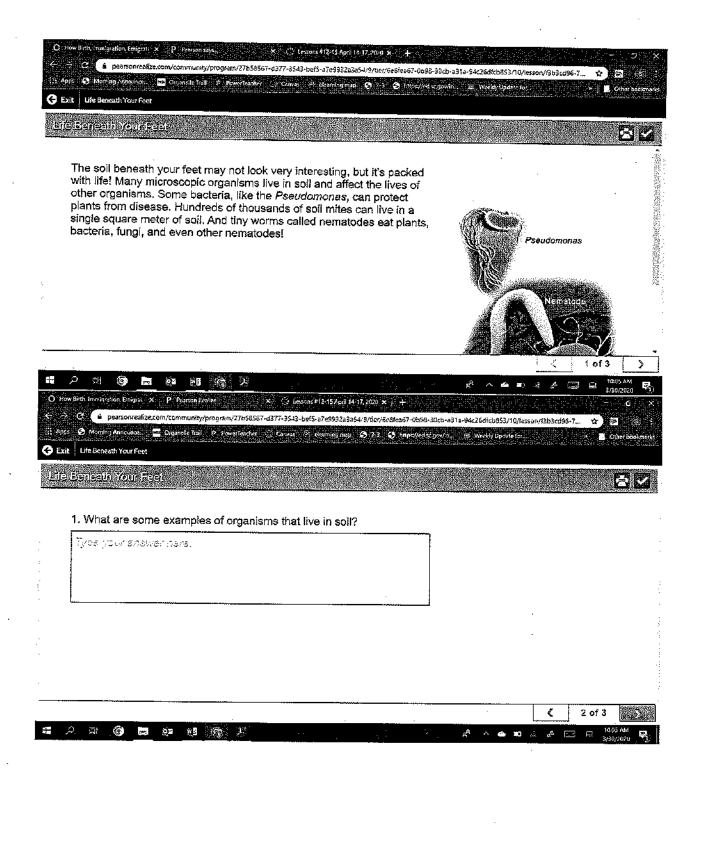
"For all things come from earth, and all things end by becoming earth." - Xenophanes of 580 B.C.

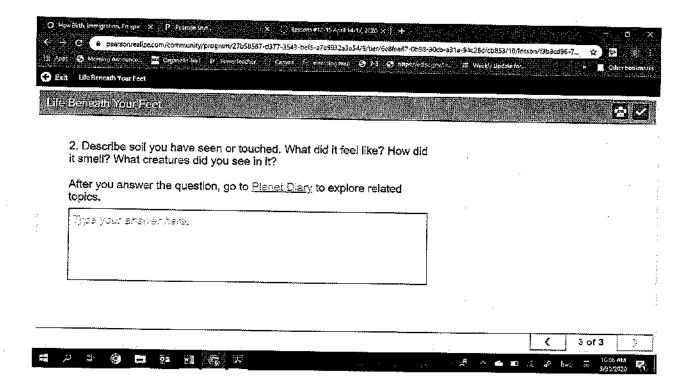
What do you think this quote means? Why do you think that? (Make sure your answer is in your own words...do not google it!!!)

*Think specifically by what the author means by the word "Earth".

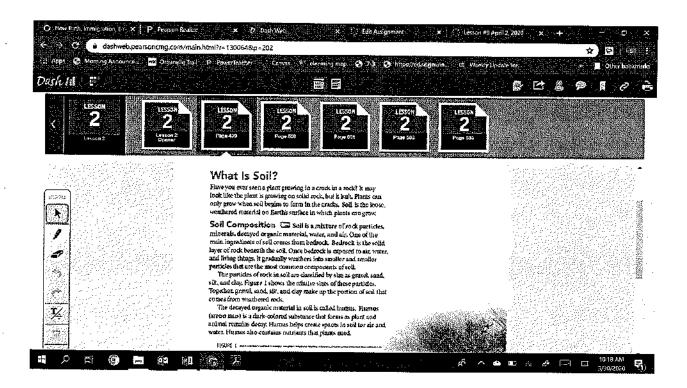
CHUMLEY'S CLASS:Then go to launchpad and log into Pearson textbook. You should complete the assignments titled: "Life Beneath Your Feet" and then listen to "How Soil Forms Active ebook Lsn".

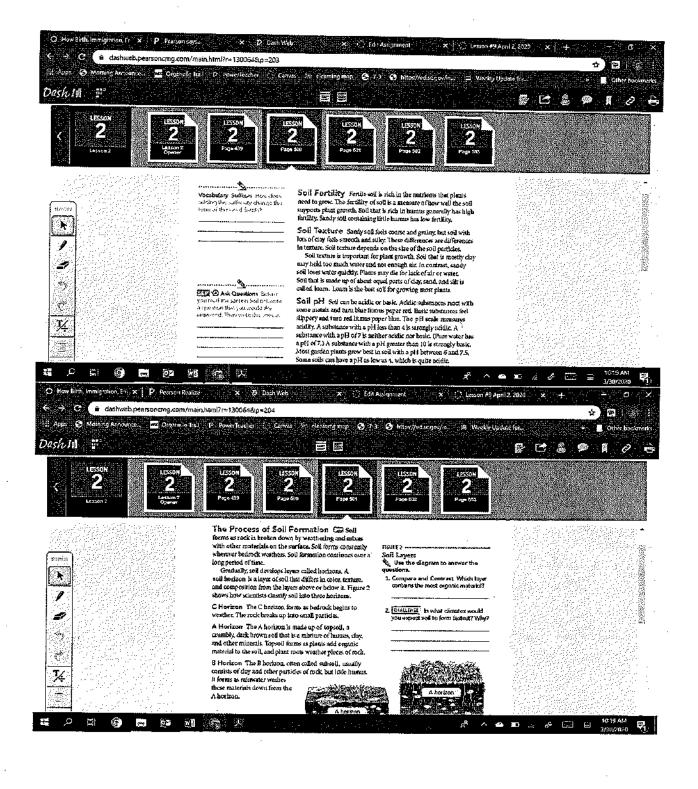
LEE'S CLASS: See below

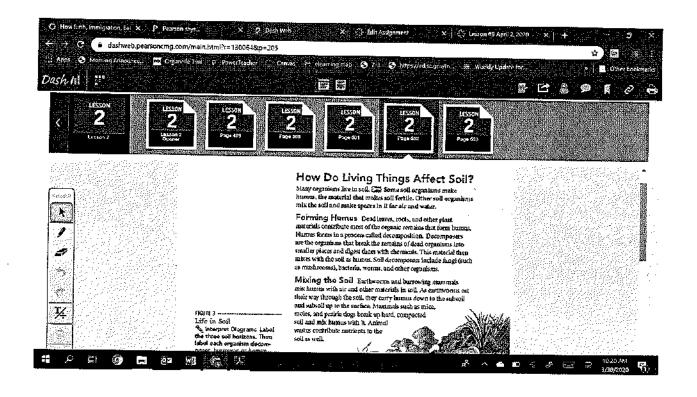




Read the following pages.







ار Advanced - 6(A) - Chumley - 19-20 > Assignments > Lesson #10-11 April 3 and April 13 , 2020 حال ounce. 🚧 Organelle Irail 📴 PowerTeacher — Canvas 🚱 eleanning map 💍 7-3 😏 https://ed.sc.gov/in... 🛚 🏗 Weekly Update for ..

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Lesson #10-11 April 3 and

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Lesson 10

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LESSON II Related Items

(◇) SpeedGrade

April 13, 2020

you think about how changes in the soil could affect an ecosystem discuss the importance of soil and its' properties. It is important that as you are learning Yesterday you read about how soil forms. For the next couple of days we are going to

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answers to the questions, you will submit them for a grade. Please click on the file below to access the power point. Make sure you record all

Soil PPpptx D

question in the discussion below. +eacher If you have any questions about the learning (this is new material), please ask your

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Pearson textbook. It is called "How soil forms quiz". Chumley's class Once you have completed the above assignments. There is a quiz you need to take on only

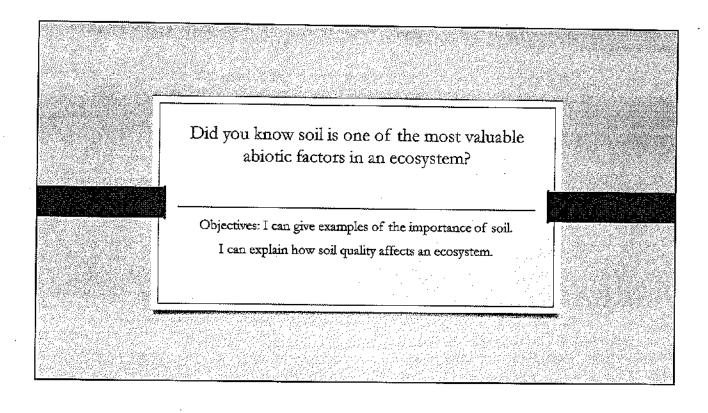
Section

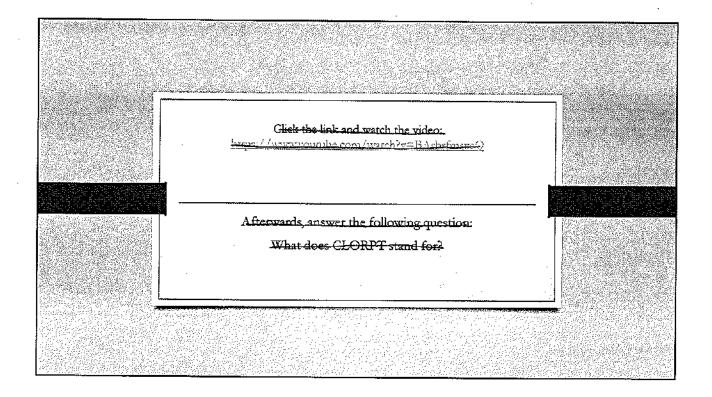
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Soil is one of the most valuable abiotic factors in an ecosystem.

- Soil has an effect on the types of plants that can grow in an ecosystem, which directly impacts the types of other organisms that can survive there.
- If a change in the properties of soil occurs, the ecosystem (including biotic and abiotic factors) will also change.
- Without soil, there would be no jeans.

That's right! Jeans are made of cotton denim statched together with cotton thread. Their blue color comes from indigo dye. Cotton and Indigo come from plants that need soil to grow.

Without soil, we would have no aluminum cans.

Aluminum starts out locked inside the soil, in an ore called bauxite. Aluminum can also be recycled to make new aluminum products, like cooking pots, airplanes, or new cans.

Without soil, we'd have no penicillin.

Penicillin is a natural bacteria-killer that's made by a mold that grows in soil. Thousands of lives are saved each year by penicillin and other medicines that were discovered in soft

Without soil, we couldn't even eat breakfast!

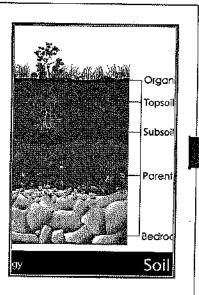
Everything from the wheat in cereal to the oranges in orange juice to the animal proteins in milk, bacon, and eggs were nourished by the soil and what grows in it. Even a ceramic plate is made of a type of soil. No soil, no breakfast and no plates from which to eat.



Soil quality is based on properties that can be observed (qualitative observations) such as soil profile, composition, texture, or particle size.

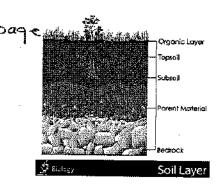
Soil Profile:

- *Soils form in layers, or horizons, and all the layers make up the soil profile.
- * A mature soil profile consists of three layers topsoil, subsoil, and parent material above bedrock.
 - * Topsoil that is nutrient rich, containing a mixture of humus, clay, and minerals, is most suitable for plant growth.
 - * Most animals live in the topsoil horizon.



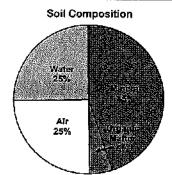
Go to the following website, click each layer to discover what you can find in each layer.

- https://www.thinglink.com/scone/ 713116802707185665 See nex-1 page
- Answer the following questions:
- 1. What do you find in horizon (A)
- 2. What do you find in parent material?
- 3. What horizon is parent material?



Soil qualities

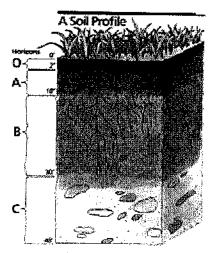
- Composition
- * Soil is a mixture of rock particles, minerals, decayed organic material, air, and water.
- * The decayed organic matter in soil is humus.
- * The sand, silt, and clay portion of soil comes from weathered bedrock material.
- * The combination of these materials in soil determines the soil type and affects the types of plants that can grow in it or animals that can live in it.
- * Factors that may affect soil type are the types of plants, climate, time, and slope of the land.



Soil Formation

SOIL......it is not DIRT..... it is.... SOIL !!!
... without which all life on earth could not exist

- → The medium in which crops grow to provide food for humans
- → One of our natural resources (soil, water, air, plant, animal)



O horizon →organic debris on soil surface
A horizon → topsoil - leaching, water movement
down, organic and mineral material transported
downward

B horizon -> subspil - accumulation of dissolved material and fine clays

<u>C horizon</u> → partially altered parent rock material

Bedrock →unweathered parent material

Soil profile → an historical record of environmental processes that have been and/or are active at a particular point in the landscape

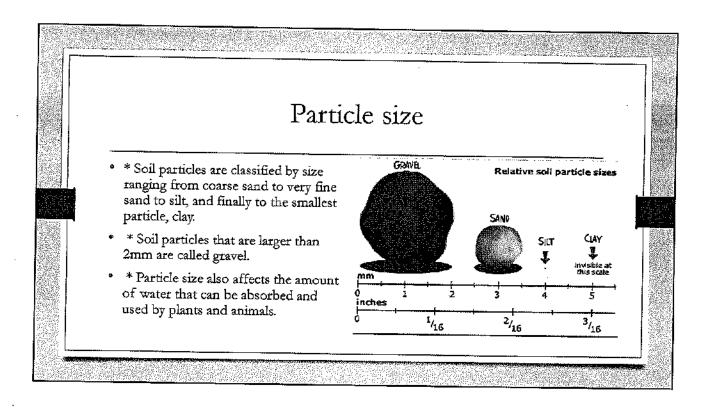
Soil formation:

- → Weathering (long term.....>1000 years) produces soils
- → Weathering rates <u>mainly</u> depend on:
 - composition of the rock (parent material)
 - · temperature range and rainfall amount
 - other factors (biology, topography, time)
- \rightarrow Soils may or may not remain in place, and any soil may be a combination of *residual* and *transported* material.

Residual soil: Remains in place; has not been transported

Transported soil: Transported by wind (Aeolian) or water (alluvial) and deposited.

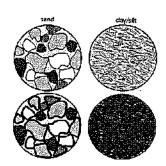
* Soil texture depends on the size of individual soil particles and is determined by the relative proportions of particle sizes that make up the soil. * Texture names may include loam, sandy clay loam, silt loam, or clay depending upon the percent of sand, silt, and clay in the soil sample. * The texture affects the amount of water that can be absorbed for use by plants and animals. **Soil texture: **Texture: **The texture affects the amount of water that can be absorbed for use by plants and animals. **Soil texture: **Soil texture depends on the size of individual soil particles and is determined by the relative proportions of particle sizes that make up the soil. **Texture names may include loam, sandy clay loam, sail loam, or clay depending upon the percent of sand, silt, and clay in the soil sample. **The texture affects the amount of water that can be absorbed for use by plants and animals.



Soil quality is also based on properties that can be measured (quantitative observations), such as permeability and pH.

Permeability:

- * Soil particles have open spaces (pores) between them that let water flow through.
- * How freely that water flows is the permeability of the soil.
- * The closer the particles pack together because of particle size, the less permeable the soil is.
- * Measuring permeability involves calculating the rate of drainage.



Complete the rintual lab. Click the link below. Be sure to read the background information and procedure on the left of the virtual lab screen. Answer the following questions and be ready to submit them in canvas

Use the attached notes to help you

- http://www.lensor.com/sites/common users/reserce/manuel-lab-/CIN2/CIN2]
- What determines the texture of soil?
- What is meant by the permeability of a soil? What is porosity and how is it related to permeability?
- Soil type and texture are very important to farmers. Too little water in the soil may cause plants to wilt and die. Too much water in the soil can disrupt a plant's ability to take in oxygen. Based on your data, which type of soil do you think is best for agriculture? Explain your answer.

Soil: Porosity and Permeability Lab

Introduction

While some precipitation falls to the earth and runs off into streams and rivers, another portion seeps slowly through the soil into the upper layers of the earth's crust. This underground water, or groundwater, fills the empty spaces of pores between rock and soil particles. Subsurface rock and sediment units through which large volumes of water can flow and be stored are called aquifers. How water travels through these aquifers is determined by a number of factors.

Two major factors affecting groundwater movement are permeability and porosity. **Porosity** is the percentage of open pore spaces in a given volume of rock or sediment, and determines the total amount of water a material will hold. The larger the volume of pore spaces, the higher its porosity, and the more water it can hold. Porosity is largely influenced by factors of particle size, shape, assortment, and compaction.

Permeability refers to the ability of a rock or sediment to transmit water freely. The rate at which a material transmits water depends not only on its total porosity, but also on the size of the passageways between its openings. To be considered permeable, the open spaces in a rock must be connected. The size and sorting of the particles composing the rock or sediment will affect its permeability. Generally, materials of larger particle size, which are well sorted, will be more permeable. Objectives

To explore the concepts of porosity and permeability by observing what effect particle size and shape have on the amount of water that can be held in the open spaces between particles, and also how these two factors impact the rate of water flow.

Is the soil permeable?



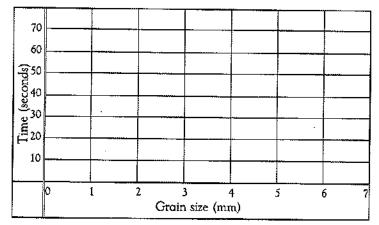
Background knowledge

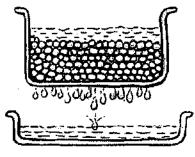
The amount of time water takes to drain through a soil is known as the soil's permeability. Some soils drain easily, others do not. How quickly a soil drains depends on the proportion of humus and on the size of the grains of rock.

Science activity

Does a soil's grain size affect how quickly it drains? Make a line graph with the data in the table below to answer this question. Connect the points.

Size of grain	Time taken (for 1 liter of water to drain through a cup of soil)	
2 mm	60 seconds	
1 mm	70 seconds	
6 mm	20 seconds	
4 mm	40 seconds	
3 mm	50 seconds	





How does grain size affect a soil's permeability?

Science investigation

Take extra care - ask an adult to supervise you.

Obtain two tennis cans with lids. Cut the bottom off one and discard its lid. Punch holes in the lid of the other and place it on thecan. Place the cut can on top of the covered can and use electricaltape to attach them together. Place a coffee filter inside the open topcan. You have now created a soil filter. Design and conduct your ownexperiment to test the permeability of different soils.

Is the soil permeable?



Background knowledge

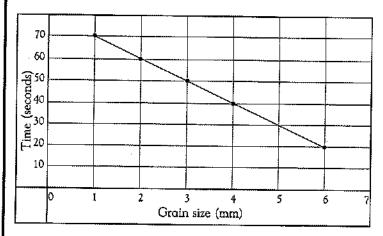
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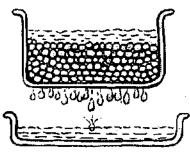
Science activity

Does a soil's grain size affect how quickly it drains? Make a line graph with the data in the table below to answer this question.

Connect the points.

Size of grain	Time taken (for 1 liter of water to drain through a cup of soil)	
2 mm	60 seconds	
1 mm	70 seconds	
6 mm	20 seconds	
4 mm	40 seconds	
3 mm	50 seconds	





How does grain size affect a soil's permeability? The larger the grain size, the faster the water can drain.

Science investigation

① If you do not have tennis cans, use plastic liter bottles. Cut off the top half of the liter bottle and insert it upside down in the bottom half, then follow the same procedure.

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21 7 Advanced - 6(A) - Chumley - 19-20 > Assignments > Lessons #12-15 April 14-17, 2020

Lesson 12, 13, 14, 15

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2020 Lessons #12-15 April 14-17,

Related Items

Edit

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have to take a picture of it and submit. for a grade. You will have to upload your work here. If what you do is on paper, you will Click the link below. Choose 3 Squares in a row or diagonally. You MUST make tic tac toe

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Points 100 choice board potx

Submitting a text entry box or a file upload

Due Apr 27 Everyone Ę Apr 13 at 12am Available from Until Apr 27 at 11:59pm

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Page :

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Think Tac Toe

Natural hazards:
write a song/rap or
poem about a
natural hazard and
describe a positive
and negative impact
it would have on an
ecosystem

Climate: Create a power point on: what climate is? What issues are we facing today due to climate change? What impact is it having in the US?

Availability of Resources: Choose a species of animal that currently is in need due to a limiting factor. Create a PSA to make people aware.

Climate: Pretend
you are a news
reporter. Create a
short 3-5 minute
video in which you
explain the
relationships
between weather,
climate, and biomes.

Availability of Resources: Free choice on how you present the info.

What is carrying capacity?

2. How are limiting factors related to carrying capacity?

Natural Hazards:
Choose a particular
natural hazard,
research it, make a
power point that tells
us the impact it had on
the ecosystem right
away and any issues
still going on today

Availability of Resources:
Write an article on the effects of a limiting factor on a specific animal. Pick an animal and identify the natural resources it uses for food, shelter, water, and space. Be sure to include what the outcomes of the situation could be.

Natural Hazards:
Make a poster of at least 3 natural hazards and describe how it would positively and negatively impact the ecosystem it is located in.

Climate: Create a children's book. The plot should center around a limiting factor. Choose an ecosystem and predict how climate change is likely to affect it and the populations and communities within it.

