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Day 1	Day 2	Day 3			3	Day 4 Day 5	Day 5
Write a scientific explanation describing why it is important	Journal Entry: How do	Length Conversion Table of Common Units	version Ta	Table of C	ommon	Scientists often take data that they have collected in a data	In a class of 28 students, 12 students take the bus
for scientists to study our	scientists use		mm	cm	ш	table format and convert the	walk, and 6 students ride
world.	mathematics to explain the	1 millimeter (mm)	-	0.1	0.001	data into a graph. Draw a model of a sample bar graph and label	their bicycles. In your iournal, create a bar graph
	world around them?	1 centimeter	10	-	0.01	the features of the graph such as the -x and -y axis, the title,	to display this data. Be sure to refer to your
		(cm) 1 meter (m)	1000	100	4	scarc, regard noj, cro.	model from Day 4. After completing the graph for
		1 kilometer (km)	1000	10000	1000		Day 5, review the model from Day 4. If any labels
		Use the table above to make the following conversions in your journal:	above to	make the in your	ne journal:		are missing, be sure to update your model.
		600 millimeters = 0.35 meters = 1.050 meters = 1.05		meters millimete kilometers	eters millimeters ilometers		
Day 6	Day 7		Day 8			Day 9	Day 10
Hydroponic Garden Hydroponic gardens are planned for future space flights and as a way to grow plants in cold climates. After researching these gardens, explain why hydroponic gardens are a good choice for each of these situations. Then, identify two more situations in which hydroponic gardens would be a good choice and explain	In your journal, answer the following questions about the Water Cycle in complete sentences. Include an illustration.  Most of the water that evaporates on the earth comes from which source?  What is the source of energy for the hydrologic or water cycle?  How does the temperature impact the temperature impact the	y 6	Create a product label in your journal for bottled drinking water, explaining consumers why water is a precious resource.	product l nal for b water, ex rs why w resource	Create a product label in your journal for bottled drinking water, explaining to consumers why water is a precious resource.	Using the formula,  Density= mass/volume, calculate the density of the following one liter samples of ocean water:  Sample A has a mass of 1.01 kg Sample B has a mass of 1.50 kg. Be sure to include units on the answers. Which sample would likely have the higher salinity (concentration of salt)? Explain your answer in your iournal	Think about the water that comes out the tap in the kitchen or in the bathroom. Is it freshwater or saltwater? How do you know?  Research the composition of tap water and list the ingredients.
a good choice and explain why.	temperature i	mpact the				of salt)? Explain your answer i your journal.	.g

Day 11	Day 12	Day 13	Days 14 and 15
According to a research study, the average shower	The concentration of iron in a water sample is 500 parts	View the simulation at the site below. Write a scientific	People have different thoughts about the importance of conserving water. Make a list of at least four questions that
uses 9.5 liters of water per	per million. Write this	explanation to explain how	you could ask someone about their thoughts related to water
minute. Use mathematics to	concentration as a fraction in	the lake changes as the water	and water conservation. Interview at least two people and
answer the questions below.	your journal.	flowing into the lake	record their responses to the questions.
Be sure to show your work		increases. Include how the	How are their thoughts similar? Different? Did you learn
and include units in your		changes may impact the	anything new?
responses.		organisms that live in the	
1) How much water is used in		lake ecosystem.	
a seven-minute shower?		http://learn.genetics.utah.edu	
2) How much water would be saved ner day if a nerson took		/content/gsl/water/	
a five-minute shower instead			
of an eight-minute shower			
Days 16 and 17		Day 18	Days 19 and 20
News Report:		Water is an important	Saving water is more important than ever. Create a poster
Something strange has happened to the local pond.	ed to the local pond.	resource for all life. Explain	explaining why saving water is essential to the environment.  The items around your home to design your poster. Share
It is covered with green scum and dead fish are floating on the surface. Write a news report explaining to the public wi has happened. Remember to use your journal. Draw and la	It is covered with green scum and dead fish are floating on the surface. Write a news report explaining to the public what has happened. Remember to use your journal. Draw and label	how water is used by living organisms.	your findings with others.
a diagram of this pond for your report.	r report.		
Use the link provided to gain background information: http://healthvermont.gov/enviro/bg_algae/bgalgae_fact.aspx.	packground information: o/bg_algae/bgalgae_fact.aspx.		

# Days 21, 22, and 23

according to the International Union for Conservation of Nature Red List: Amphibians-2,068, Arachnids-166, Birds-1,460, Corals-237, Crustaceans-732, Fish-2,359, The data listed below represents the number of threatened animal species in 2016 Insects-1,268, Mammals-1,194, Mollusca-1,984, and Reptiles-1,079.

Create a data table to display this information in a different format. Insert the data in numerical order listing the species with the most threatened number of animals first.

Choose one group and research at least three specific animals on this list. Record three facts for each in your journal along with the data chart.

# **Days 24 and 25**

Design an experiment to determine how an owl's diet varies at different times of the year. Give an example of a hypothesis you could test with such an experiment. Consider what the independent variable would be. Consider what would be measured. Include the things that you would you would control. Record your experiment in your journal.

Check out the link below. http://kidwings.com/virtual-pellet/

#### Day 20

Sloths are animals that are known for their slow movements. Read the text to find out what protects sloths from predators. Create a list in your journal.

http://kids.nationalgeographic.com/animals/sloth/ - sloth-beach-upside-down.jpg

# **Day 27**

Visit the website below to answer the two journal questions.

https://www.usbg.gov/insects-garden

Journal Questions:
How can you identify insects from other animals?
How do different insects grow? Give

earthworms

at least two examples

Video about earthworms:

https://www.youtube.com
/watch?v=l-zc\_lvjLnl

Write three facts that you
learned about

### Day 29

Day 28

Suppose 33 percent of the 50 tons of wood produced in one year by a forest is consumed by termites and other insects. How many tons do the insects eat?

Record your answer in your journal.

## Day 30

Write a scientific explanation to explain how insects are important to humans.