Summer Science Contest for Rising 5th Graders

Name (First MI	Last)				
School Gra		de Level for 2017-18			
decision mak **When com Buildings are ***The deadli 17-18 school	ing, but the work submitted should be plete, please drop off at the front closed on Fridays. Ine for submission is Thursday , June	desk of ANY Elementary school in Rock Hill Dist. #3. 29, 2017. Winners will be announced at the start of the			
Matter and M What is matte	Mixtures 5.P.2 er?				
Your chart lis	sts elements. What is the difference be	etween an element and a mixture?			
	nd out some additional information a	wn as elements. What do you know about each? Do some bout each. If you would like to see a periodic table, go to			
Element	Something you know	Research Findings			
Sodium					
Calcium					
Iron					
Copper					
Fluorine					
Aluminum					
Read the pass Both the Appelevations. A from central ago from maduadruple the Appalachians Alongside that (1,500 miles which gives come https://geo.	palachian and Rockies have two the And Black Bears. But there are many Alabama into Newfoundland, the Apparine sedimentary rocks, volcanic rocks millions of years that it took for the of 6,684 feet (Mount Mitchell), that, the Rockies stretch across the councompared to 3,000 miles). The rockelimbers rugged cliffs to enjoy.	omparing the Rockies and the Appalachian Mountains sings in common; the beauty and wonder of their high differences between these two historic ranges. Stretching palachian mountains were formed over 480 million years eks and slivers of ancient ocean floorwhich is at least are Rockies to form. Compared to the highest peak of the ne Rockies highest peak is 14,440 feet (Mount Elbert). Antry almost twice as long as the Appalachian Mountains of the Rockies is typically either limestone or dolemite, the highest peak is 14,470 million and the rocky-mountains-compared-and-contrasted/			

Physical Science: Forces and Motion 5.P.5

There are many connecting roads to travel from Rock Hill, SC to Myrtle Beach, SC. Study the routes below, make the necessary calculations and answer the questions.

		Step 1	Step 2	Step 3	Step 4	Step 5	
Route A	Road	Main St RH	Hwy 21-S	Hwy 97-S	I-20E	Hwy 501-S	Make the calculations based on Route A
	Distance (miles)	2.5	25	30	122	2.5	Total Distance (use correct units)
	Time (minutes)	5	29	34	129	7	Total Time (use correct units)
Route B	Road	Main St. RH	I-77S	I-20E	Hwy -76	Hwy 501-S	Make the calculations based on Route B
	Distance (miles)	2	41	82	67	18	Total Distance (use correct units)
	Time (minutes)	4	32	74	80	25	Total Time (use correct units)

Which is the shorter (distance) route to Myrtle Beach?					
Which route will take the least time to reach Myrtle Beach?					
,					
Distance ÷ Time = Speed. What is the average speed of travel to Myrtle Beach via each route?					
Route A:	Route B:				

If both routes are known, why might someone choose Route B?

Interdependent Relationships in Ecosystems 5.L.4

A 5th grade student wanted to know the correct balance of nature. He set up 5 jars. Into Jar A, he placed 6 snails. Into Jar B, he placed 4 snails and 2 plants. Into Jar C, he placed 3 snails and 3 plants. Into Jar D, he placed 2 snails and 4 plants. Into Jar E, he placed 6 plants. Each jar was filled with the same amount of the same type of water and sealed tight. The jars were set near a window and observed. Draw the setup of the experiment below.



Why would a student think this would be a proper experiment to observe the balance of nature?

"Each jar was filled with the same amount of the same type of water and sealed tight. The jars were set near a window and observed." Why are these aspects of the experiment important? Are there other considerations for such an experiment?

Which jar would you predict would be the correct balance of nature? Explain.

^{**}When complete, please drop off at the front desk of ANY Elementary school in Rock Hill Dist. #3. Buildings are closed on Fridays. The deadline for submission is **Thursday, June 29, 2017**. WInners will be announced at the start of the 17-18 school year.