

## Generalize Place Value Understanding

**Essential Questions:** How are greater numbers written? How can whole numbers be compared? How are place values related?

### Digital Resources



Water, wind, and ice can change the shapes of rocks over thousands of years. This is called erosion.

Kannesteinen rock in Norway got its shape from the sea that surrounds it.

Mountains, caves, and some islands are kinds of rock formations. Here is a project about caves and greater numbers.

### Math and Science Project: Caves

**Do Research** Use the Internet or other sources to find the depths in feet of the 5 deepest caves in the world.

**Journal: Write a Report** Include what you found. Also in your report:

- Make a place-value chart that includes the five depths.
- Write each depth in expanded form.
- Use “greater than” or “less than” to compare the depths of two of the caves.

## **Math and Science Project: Caves**

***Classes 421, 401 and 402 – due date is 10/28/2019.***

***Update Classes 401 and 402 – due date is 11/4/2019***

Students will do a project that integrates Math and Science. They should follow the directions on the bottom of the Topic 1 sheet that is titled, "Generalize Place Value Understanding".

Students will do research and find the 5 deepest caves in feet in the world and organize the information in a place value chart/table.

Students will write each depth of each cave in expanded form.

Students will choose two cave depths from the place value chart and compare them using "greater than" or "less than" symbols.

Students will make a report (paragraph format) that will not only give the feet of each cave or landform, but at least two interesting facts for each cave. There should be an introduction to the report as well as a closing.

Follow the checklist to make sure you include what is listed. You get a point for each task that you include.

Also, included with the directions and checklist is the standards that we are meeting by completing this project.

Presenting your project on a small poster board or cardboard is suggested, but feel free to be creative.

Name: \_\_\_\_\_ Date \_\_\_\_\_

STEM Project/Caves Y=yes=1 pt N=no=0 pts ½=partial =½ pt.

\_\_\_\_\_ of 13 pts \_\_\_\_\_%

I researched the 5 deepest caves in the world \_\_\_\_\_

My research was accurate \_\_\_\_\_

I included a place-value chart with 5 depths \_\_\_\_\_

My info in the chart was accurate \_\_\_\_\_

I wrote each depth in expanded form \_\_\_\_\_

My expanded form for each depth was accurate \_\_\_\_\_

I compared the depths of two of the caves \_\_\_\_\_

My comparison of the two depths was accurate \_\_\_\_\_

I included two researched facts about each cave \_\_\_\_\_

My work is well organized, neat, and easy to read \_\_\_\_\_

My writing contains correct grammar, spelling,  
capitalization, mechanics and punctuation \_\_\_\_\_

I presented my report in a creative way \_\_\_\_\_

It is evident that I understand place-value \_\_\_\_\_

My over all score: 0 1 1+ 2- 2 2+ 3- 3 3+ 4- 4

\_\_\_\_\_ I will take the above feedback and update my project

\_\_\_\_\_ I will keep my grade and not update my project

Comment: