Place Value Activity
To make sure you understand place notation, write numbers for the amount expressed in words:

Seventy-seven thousand, five hundred and forty-two=_____________

Nine million, nine hundred thousand, three hundred and twenty-one=______________

Four hundred thousand, one hundred and one=_____________

Five hundred twenty=_____________

Two thousand, nine hundred fifty-two=______________

Geologic Changes Activity
1. Look at Pictures #1 and #2. They are the same ones you will see in the Shape It Up online activity, and will help you get familiar with it.

Picture #1

Think of them as “before” and “after” pictures of natural processes that shaped the land since the earth formed—and continue to shape it today!
Shape It Up
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Picture #1 shows change occurring over about 10,000 years. Picture #2 shows change occurring over about 2,000,000 years.

Picture #2

Now look at this next Picture #3. This picture shows change occurring over 100 years.

Picture #3

THINK and WRITE

1. Order the pictures in a time series. On a piece of paper, make a list showing which picture story takes the longest time to occur, which takes a medium amount of time—in between longest and shortest—and which takes the shortest amount of time. Longest goes on top. Refer to the pictures by their numbers (#) 1, 2, and 3. Which number has the most zeroes? The least?
2. Describe a process of change in nature you think is happening in Picture #1, Picture #2, and Picture #3 on these pages. Something is being made, what is it? A process is a series of changes that produces something new. A good way to think about processes is in steps. People talk of the "baking process" to make cookies. Steps of the process include gathering ingredients, measuring ingredients, mixing them, shaping cookies, baking them, cooling cookies… eating cookies! In picture sets #1, #2, and #3, something is being made—what is it?

3. Form a hypothesis—that’s an idea that can be proven with scientific evidence—on what might cause the changes the pictures show. List one form of evidence that is the basis for your hypothesis. Think in terms of wind, water, ice, and heat.