

Lesson on Inequalities and Earthquakes
Note to Teachers

Grade Level - 8th grade and 9th grade.

Approximate time - 60 minutes, including time spent discussing results and answers. Students may want to finish their graphing for homework.

Skills practiced - reading for information and meaning, powers of ten, and inequality graphing.

NYS Standards covered - Number and Numeration, Operations, Modeling/Multiple Representation and Patterns and Functions.

Note: This is a good lesson to do after students have had some practice graphing several types of inequalities including compound inequalities. The lesson can be followed by graphing this equation $y = 10^x$ so that students can see the growth in intensity of earthquakes and begin to gain an understanding of exponential functions.