

*How mathematics is used to describe nature and natural disasters in particular?*

Mathematics is used to describe nature in several ways. Numbers are used to describe the relative magnitudes of measured phenomena, and units are used to specify the dimension and perhaps the measurement instrument that was used.

Measurements recorded with the same units are used to compare magnitudes of similar events. **Mathematical functions** are used to describe relationships between different variables, in this case, the characteristics of certain natural disasters. **Mathematical models** are used to summarize relationships between the characteristics of natural disasters.



An **earthquake** is the perceptible shaking of the surface of the Earth, resulting from the sudden release of energy in the Earth's crust that creates seismic waves.

Earthquakes can be violent enough to toss people around and destroy whole cities.

# WHAT DOES THIS GRAPH TELL YOU?

MATH INTEGRATION WITH SCIENCE.

MATH IN. Natural disasters.



## EARTHQUAKES:





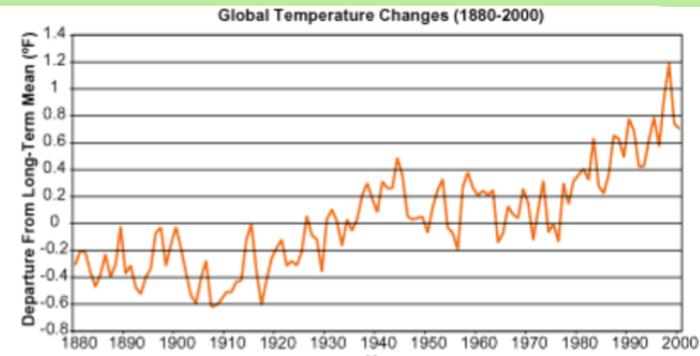
**In this project we used to work as a group to make an amazing model which represents earthquake.**



**we used white and red clay to make the mushroom which will be as a design. In addition, we used a biscuit boxes for the yellow buildings to show the effect of earthquake.**



**As well we also used colored papers to cover the boxes along with the cardboard with wooden cover. Additionally we used cars to present and prove that earthquake has many different disasters and we used glue gun to stick them.**



**THE GRAPH REPRESENTS THE GLOBAL TEMPERATURE CHANGES THAT HAPPENED IN 1880-2000. THE X-AXIS REPRESENTS THE YEARS AND THE Y-AXIS REPRESENTS THE DEPARTURE FROM LONG-TERM MEAN.**

**The 10 warmest years on record have been since 1983 and the 7 warmest years on record have been since 1990. If business continues as usual, our current rate of fossil fuel consumption indicates that the carbon dioxide content of the air will double by 2100.**