

## EARTHQUAKE STATES

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### Materials

- Colored Pencils or Crayons
- Data Sheet (attached)
- Base Map of The US (attached)

### Procedure

1. Use the Table 1 to determine which states that have had large earthquakes (Richter Magnitude > 6.0) from 1800-2012.
2. On the attached map, color the states with the appropriate code based on the Seismic Activity Legend in Table 2.
3. Prepare to discuss your findings.

### Guided Discussion Questions

1. Which two states have the most earthquake activity? Why?
2. What types of plate boundaries are these two states adjacent to?
3. Are there any unexpected results to your analysis? What are they?
4. Can these historic data be used to estimate the risk of future earthquakes? Why?

Table 1.

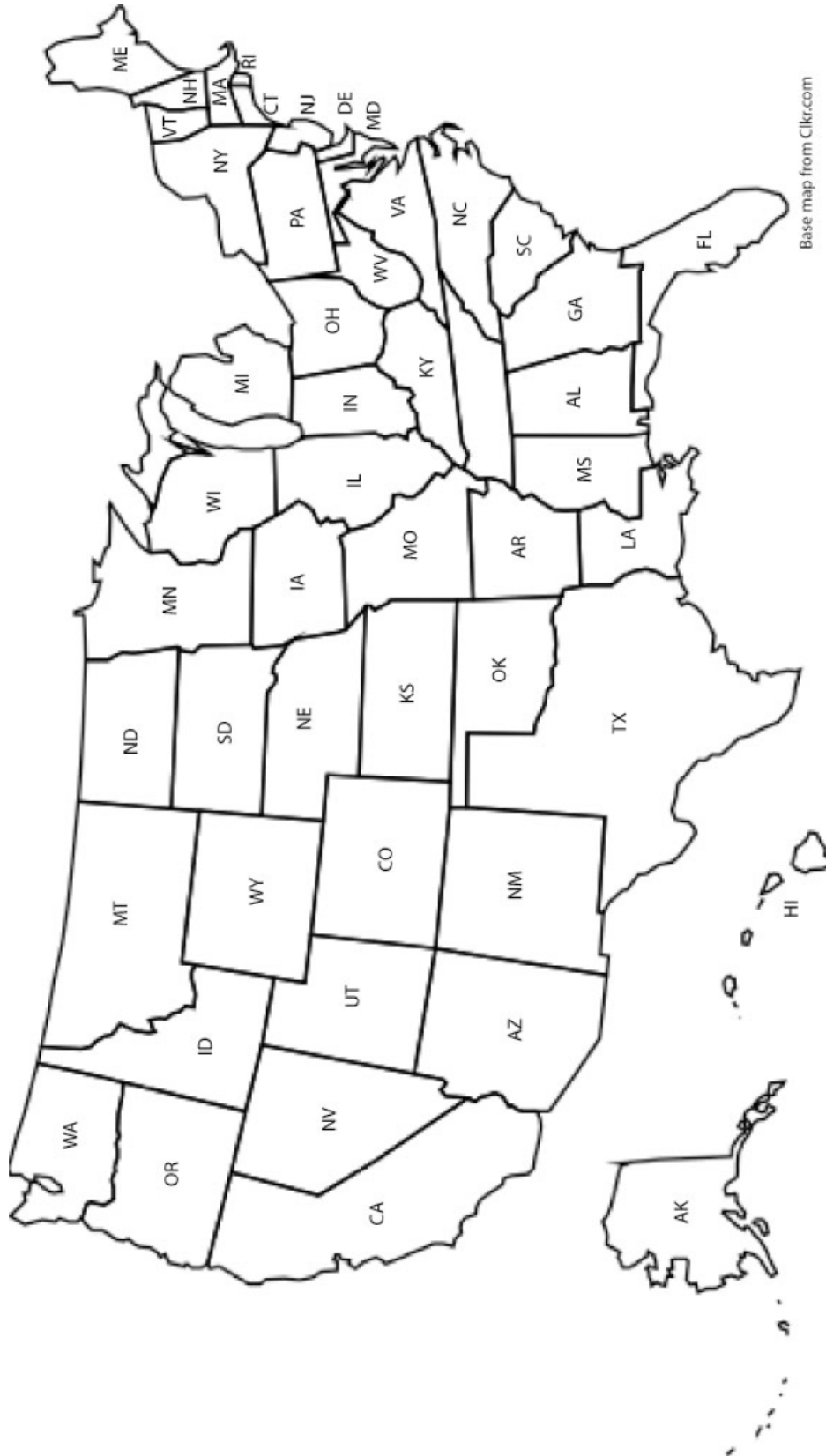
Table 1. Occurrence of large earthquakes (Richter magnitude > 6.0) from 1800-2012.

Source: <http://earthquake.usgs.gov/earthquakes/states/historical.php>

State Abbreviation	State Name	Earthquakes with M>6.0
CA	California	54
AK	Alaska	49
NV	Nevada	8
HI	Hawaii	11
OR	Oregon	3
WA	Washington	4
ID	Idaho	3
WY	Wyoming	2
MT	Montana	5
UT	Utah	1
MO	Missouri	5
SC	South Carolina	1
CO	Colorado	1
AR	Arkansas	1

Table 2. Legend for earthquake map.

NUMBER OF EARTHQUAKES M>6.0 Since 1800	COLOR	DESCRIPTION
0	WHITE	NO SEISMIC ACTIVITY ABOVE 6
1-3	BLUE	SOME SEISMIC ACTIVITY
4-9	RED	MODERATE AMOUNT OF SEISMIC ACTIVITY
10+	PURPLE	ACTIVE ZONE



Base map from Clker.com