

# Comparing the New Madrid and San Andreas Fault Zones

Name \_\_\_\_\_ Block \_\_\_\_\_

Follow these directions carefully:

- (1) Refer to pages 10-12 in the Earthquakes in Missouri. Color in the key on this following the key on that page.
- (2) Find the corresponding Richter scale numbers on page. Add to the key.
- (3) Identify several effects from the Mercalli scale. Add to the key.
- (4) Answer the questions on the back of this page.



Modified Mercalli and Richter

\_\_\_\_\_ V  \_\_\_\_\_

\_\_\_\_\_ VI  \_\_\_\_\_

\_\_\_\_\_ VII  \_\_\_\_\_

\_\_\_\_\_ VIII  \_\_\_\_\_

\_\_\_\_\_ IX  \_\_\_\_\_

## **SUMMARY QUESTIONS:**

1. If a Mercalli IX occurred in both fault zones,

(a) How many states would the San Andreas Zone affect? \_\_\_\_\_

(b) How many states would the New Madrid Zone affect? \_\_\_\_\_

(c) Which fault would affect the largest area?

2. Why is there such a difference in the total area affected by these two fault zones?  
(Read pages 11 & 12 in the booklet!)

3. Define **liquefaction**.

Which fault zone would mostly likely experience liquefaction?

What would happen as a result of liquefaction?

4. Define **subsidence**.

Which fault zone would most likely experience subsidence?

What would happen as a result of subsidence?

**SUMMARY PARAGRAPH:** Compare/contrast the San Andreas and New Madrid Fault zones. Include as many differences and similarities as possible.