

EARTHQUAKE!!

Name: _____

Earthquakes most frequently occur along plate _____. However, they can also occur in places where there is _____ activity. Earthquakes originate under ground at a _____ because of plate movement from convection currents. _____ waves that carry energy from the earthquake eventually reach the surface of the earth. The starting point of an earthquake on the surface is the _____. P-waves, primary waves, arrive first and will _____ and expand the rock in a back and forth motion. S-waves, secondary waves, are slower but will move the rock up and _____ in addition to back and forth. The final type of seismic waves, surface waves, are the slowest traveling but cause the most damage since they cause the most ground _____.

Scientists can locate the epicenter using data retrieved from three seismic stations. The _____ of uncertainty is revealed through overlapping circles that show the distance the earthquake originated from the seismic station. People near the epicenter will feel the _____ shaking of the land and the energy weakens as it travels away. Scientists study earthquakes in order to predict their occurrence and location. They can determine the earthquake's strength using the _____ Scale, the amount of _____ caused using the Mercalli Scale, and the total energy based on the changes to the _____ using the Moment Magnitude Scale. When earthquakes occur under water, a _____ can result threatening the safety of people on land!

The state of _____ has frequent earthquakes due to its location along a _____ boundary. When the two plates move quickly past each other, vibrations are felt as _____. Movement at this boundary has also created the _____ fault, an example of a strike-slip fault.

B Y T O G C F S K Z R T C S M M M B S U S Z C Z B K E P L D
B O I T A H J U Y Y S O A Y I E T X E S B H K I Q G T T K L
L Q U B M K R I C E Q N W L U V S S V C X N R F A U G F Q Y
B J M N Q L D Y G F A B P V B E I J I A E H P M I X E Y P O
B C B S D E C N F N F D Y M A F T H G W W B A V Q L Y U G F
E N U N K A O P D O O P J P W Q L Y F Z V D X J Q T R P J H
C E C Y W R R R Z R M R Q V C Y S G X N J G I Z X I J Q A B
J K V M T P E I L R K X J N F O L I S J H D K D Q O Z E L Q
M X L S C A U K E E A R T H Q U A K E S I E C U L G W T Y V
I R E O S T R V A S R V I N V P N S C G C L W D U X R Q A G
W T O R G V C J O L X A F G Q Q H R A V Y I U B G J V F F K
F T S F P Q R S T L B B O H K J V C L I Q H M L M Z E C T U
Q U V E S F A U L T C W C E M H Y G I M Q E E S J J D G R K
U P W S N N Q K O X W A K P A E A P F N D U K E I L N V I I
T L J T P X A P U U S C N O S K U Q O M G Z W K W E K K A V
R S B D F A W R A Z W Z X I D H O W R A I L P I L I S N N B
T W O F U Q S H T G P E I G C L M E N Q P D W T H L G D G U
G C V B N G S P R A D K I Y T L M T I V E Q L L J I Z G L C
Z T H H T Q F C A P T S E Q V E D A A G E J B G C E C W E N
K C E A Y P P C U W I M N I F A T P Q R E T H C I R B V F W
S F R B G V I U J U M S B O P D G W I J O C M P A H Z V F K
G T E P Z K S V P A A W A T Y C U X Q V B V E O T E E T S S
K Z T W E P O R F B N P M L O A G H V M G P L I P U H U S I
J U N O V D V F M H U G T M X J I Z Y B Z B Z Q O R H L Y A
W A E V V F Y K M S S L P Z O A A I V R D V W E S A T E D R
F V C M O V E M E N T R F O D Q Q V Y Z G G F B V K M C I P
A I I I K F H B R J E X H E N O Y R E T N E C O P Y H D Z J
Y O P L U F K M I S X N T A U I W J M V J W E H L H D A S N
R W E B A M N A S A M O Z Z L G G N G R X O V V D J I X I T
M R W Y W A O R D V L J I X P A I H K U U V A M H V B Q K D