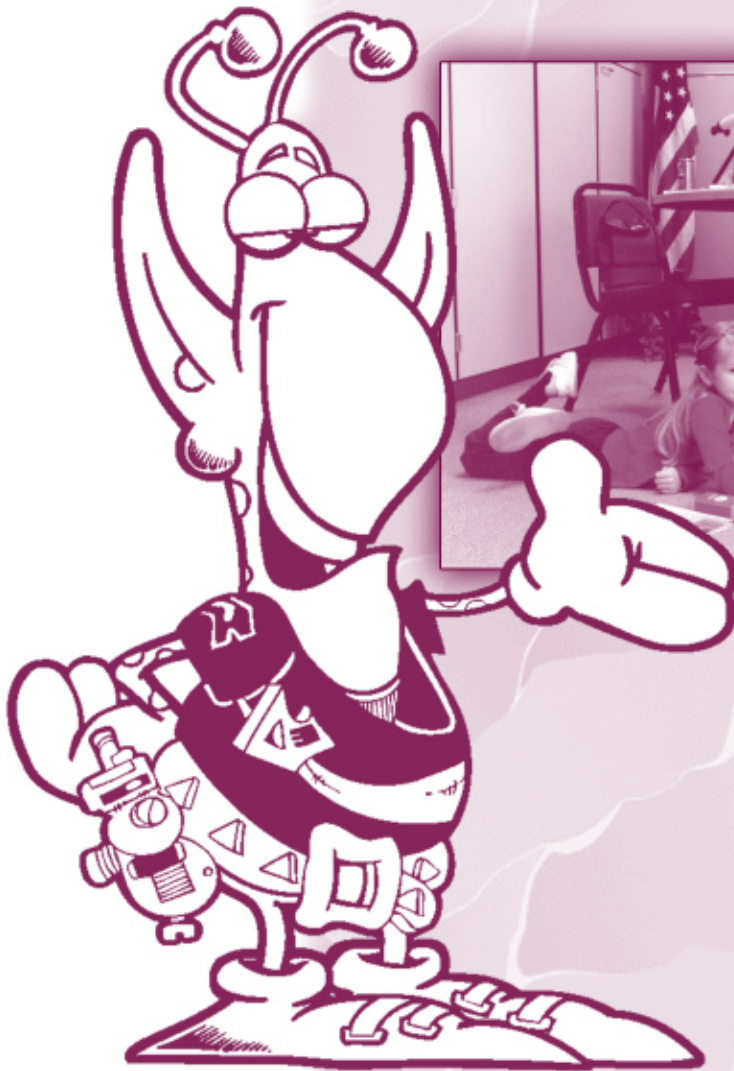




**Washington
Military
Department
Emergency
Management
Division**

Learning About **NATURAL DISASTERS**

With Word Games
and Puzzles



Grades 3-6

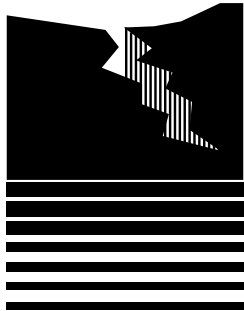


WORD SEARCH PUZZLE

EARTHQUAKES

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to Earthquakes.

Find the Hidden Words!



AFTERSHOCK
EARTHQUAKE
ENERGY
EPICENTER
FAULT
FOCUS
FORESHOCK
HAZARD
HYPOCENTER

INTENSITY
LOCATION
MAGNITUDE
RICHTER
SEISMOGRAPH
SHAKING
TSUNAMI
VIBRATION
WAVEFORM

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

WORD SEARCH PUZZLE

TSUNAMIS

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to Tsunamis.

Find the Hidden Word!

| | |
|-------------|-----------|
| COAST | MONITOR |
| DAMAGE | OCEAN |
| DANGEROUS | PACIFIC |
| DESTRUCTIVE | POWERRFUL |
| DISASTER | TSUNAMI |
| EARTHQUAKE | VOLCANO |
| ENERGY | WARNING |
| LANDSLIDE | WATER |
| METEORITE | WAVE |



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

WORD SEARCH PUZZLE

RICHTER MAGNITUDE SCALE

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to the Richter Magnitude Scale.

Find the Hidden Word!

| | |
|-------------|--------------|
| AMPLITUDE | OSCILLATION |
| CALTECH | RICHTER |
| CHARLES | SEISMOGRAM |
| EARTHQUAKE | SEISMOGRAPH |
| ENERGY | SEISMOLOGIST |
| LOCAL | SIZE |
| LOGARITHMIC | TELESEISMIC |
| MAGNITUDE | TENFOLD |
| MEASURE | VIBRATION |

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

WORD SEARCH PUZZLE

SEISMIC WAVES

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to Seismic Waves.

Find the Hidden Word!

ATTENUATE
BODY
COMPRESSION
DILATATION
ELASTIC
ENERGY
LONGITUDINAL
LOVE
PARTICLE

PERPENSICULAR
PRIMARY
RALEIGH
REFLECTED
REFRACTED
SECONDARY
SHEAR
SURFACE
TRANSVERSE



WORD SEARCH PUZZLE

MERCALLI INTENSITY SCALE

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to the Mercalli Intensity Scale.

Find the Hidden Word!

| | |
|-------------|------------|
| DAMAGE | MOVEMENT |
| DESCRIBES | NEUMANN |
| DESTRUCTION | NUMERALS |
| EFFECTS | OBSERVED |
| EYEWITNESS | ROMAN |
| FELT | SUBJECTIVE |
| INTENSITY | TWELVE |
| ISOSEISMAL | WOOD |
| MERCALLI | VIBRATION |

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

WORD SEARCH PUZZLE

Emergency Planning and Community Right-To-Know

HAZARDOUS MATERIALS

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to Hazardous Materials.

Find the Hidden Word!

ACCIDENT
CHEMICALS
COMMUNITY
CORROSIVE
EMERGENCY
FLAMMABLE
GAS
HAZARDOUS

LEPC (for Local Emergency
Planning Committee)
LIQUIDS
MATERIALS
PLANNING
PLAN
PREPAREDNESS

PREVENTION
RESPONSE
RTK (for Right-To-Know)
SPILL
TANK
TOXIC
VAPORS

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

WORD SEARCH PUZZLE

Emergency Planning and Community Right-To-Know

HAZARDOUS MATERIALS ACCIDENTS

Instructions: The words in the puzzle may be hidden horizontally, vertically, diagonally, forward, or backward. Circle discovered words with different colors, and cross them off the list when you've found them. When all of the words are found, you will know many important terms related to the Hazardous Materials Accidents.

Find the Hidden Word!

WALLY
WISEGUY
TURTLE
KPEPC
SIP
TANK
SAFETY
ACCIDENTS
RESCUE

FIRE
CHEMICALS
TRAIN
OLICE
SHELTER-IN-PLACE
SIREN
EMERGENCY
PLAN

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

STAYING SAFE IN THE WOODS

Survival Tips

If lost in the woods...

* Always carry a warm hat, a flashlight, a large red handkerchief, and a plastic whistle on a hike or camping trip. In an outing where the weather might be cold, carry a "space" blanket of reflective Mylar. If you get lost, blow the whistle three times (a distress signal) every time you hear an unusual sound.

* Get under a large tree (in a clearing if possible) when you know you are lost. You'll be found more quickly and you won't fall and injure yourself. Tie the handkerchief to the tree.

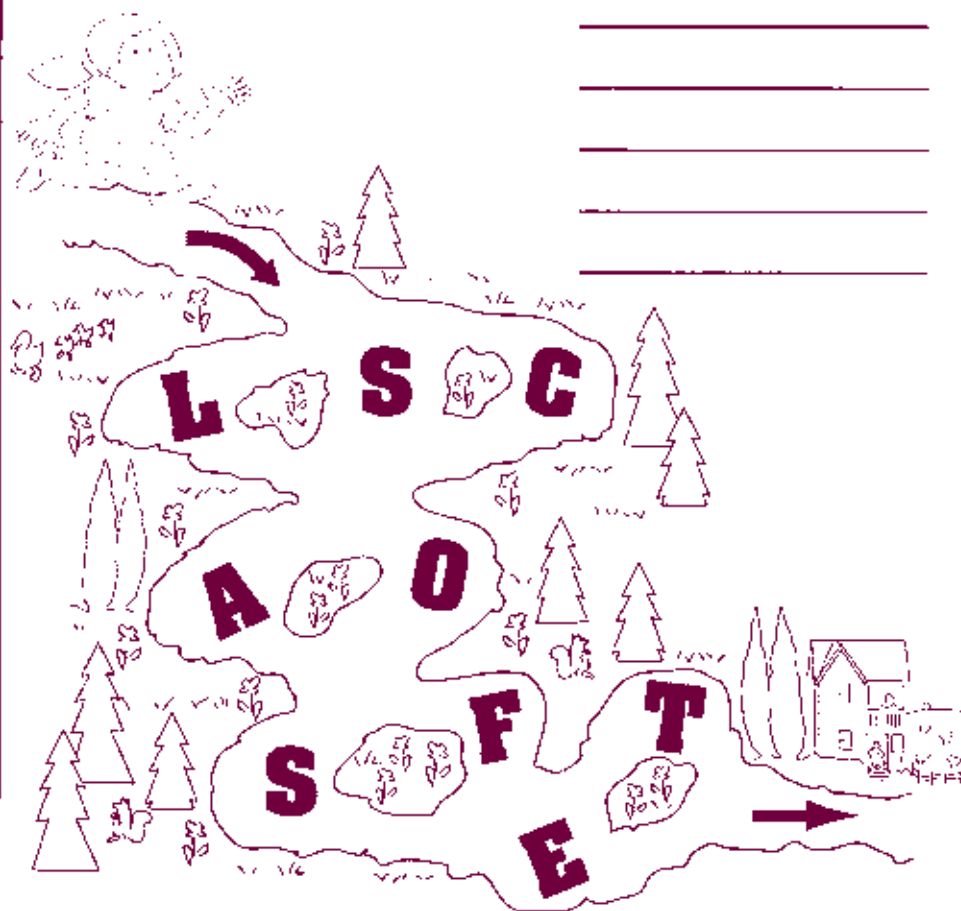
* Admit you're lost. Don't be ashamed and don't hide from searchers. Stay where you are. If you keep moving the searchers can't find you. Don't worry about Mom or Dad being angry.

* Help searchers find you. Wear a red or orange jacket in the woods. Lie down when a helicopter flies overhead and wave your red handkerchief. Answer if you hear a voice calling you.

* In cold weather, place your "space" blanket beneath you and then wrap it around you. Keep warm and dry. If the weather is not too hot and you aren't tired, make crosses or a SOS with broken branches or rocks, or by dragging your foot in the dirt.

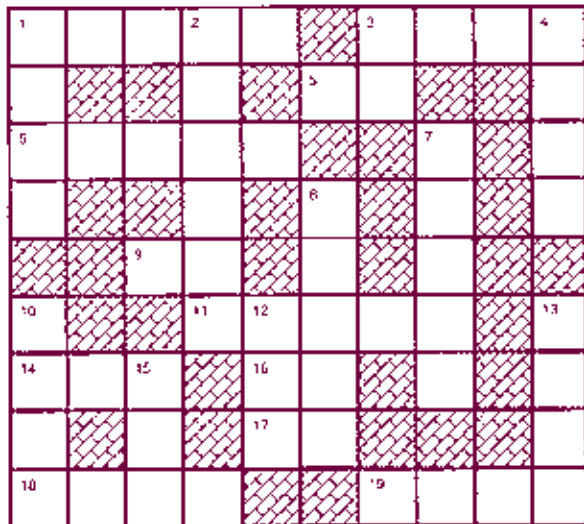
* If you hear a noise at night, yell. If it is an animal, it will go away.

Find the best path through the woods. If you take one path, you will spell the word LOST. If you take another, you will spell SAFE. Write down all the words you find along the paths. Taking different paths will form new words.



Safety Masters for Kids

SAFE WALKING CROSSWORD



Learn walking safety tips as you complete this crossword puzzle.

SOLUTION

Across: 1. house, 3. good, 5. to, 6. learn, 9. be, 11. there, 14. any, 16. or, 17. we, 18. kiss, 19. walk
Down: 1. help, 2. street, 3. go, 4. dark, 7. rules, 8. where, 10. back, 12. how, 13. talk, 15. yes

ACROSS

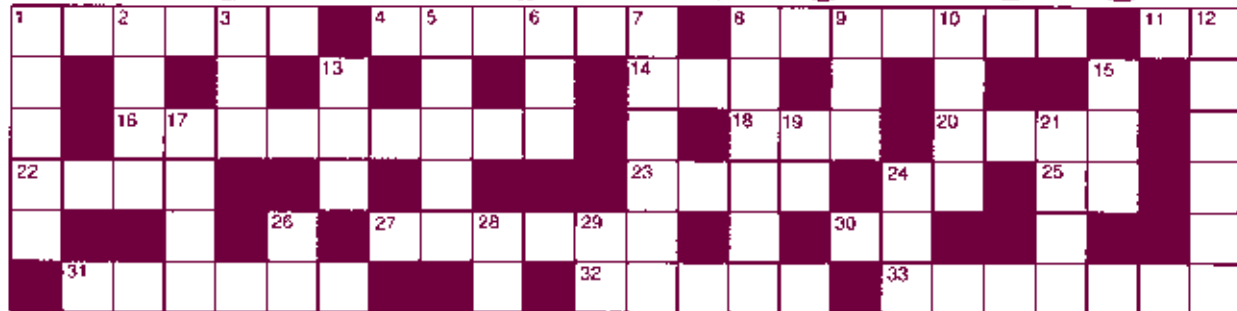
- If you are being followed, turn into the nearest safe _____ and knock.
- When you need help, a _____ person to ask is a mother with children.
- Always go _____ a crosswalk to cross the street.
- You need to _____ walking safety rules so that you know what to do in case of trouble.
- Always walk with confidence and do not appear to _____ thinking about other things.
- Walk as close to the side of the road as possible when _____ are no sidewalks.
- Never run into the street for _____ toy or object.
- Walk with a brother, sister, _____ friend whenever possible.
- It is important that _____ know how to protect ourselves when walking.
- Before leaving, be sure to remember to _____ Mom or Dad goodbye!
- Always _____ facing traffic.

DOWN

- If you are in trouble and not near a house, go into a store or public building and ask for _____.
- If you see a person or group of people ahead who make you feel uncomfortable, cross the _____.
- Shortcuts are not always the best way to _____, especially early in the morning or at dusk.
- Avoid alleys and _____ or secluded areas.
- Follow the safety _____ for crossing streets by listening and looking for traffic.
- Make sure your parents or sitter know _____ you are going.
- If you are being followed by a car, turn and go _____ where you were coming from.
- Before leaving, be positive that you know _____ to get to where you are going.
- Do not _____ to strangers.
- If a stranger asks you to go for a ride in his or her car, **never** say _____!

Safety Masters for Kids

BICYCLE SAFETY CROSSWORD



ACROSS:

1. Drive your bike on the right side of the _____.
4. Walk your bike _____, busy intersections and streets.
8. A _____ is never allowed on a freeway.
11. Slow down when you are _____ an intersection. You might have to stop.
14. Try not to ride after dark, but if you must, be sure to a headlight and reflectors on your bike.
16. Always look both ways and behind before turning or changing _____.
18. Riding a bike can be great _____ if you follow safety rules.
20. Always _____ single file, in a straight line, never zig zag.
22. Your bicycle will _____ brakes good enough to skid tires.
23. Never just _____ your bike on the ground; always park it upright on the kick stand, or in a rack.
24. Ride one to a bike. Two on a bike is hard to keep balanced. Visibility _____ very poor.
25. Store your bike indoors if _____ all possible.
27. Always yield to _____ walking.
30. Take care of your bike and keep _____ in good repair.
31. Avoid broken pavement, litter, loose _____, mud, or leaves. Any of these can cause you to lose control of your bicycle.
32. Stunting on the streets is for fools. Even if you are mad, never accept a dare out of _____.
33. Always give proper hand _____ before you turn.

SOLUTION:

ACROSS: 1. street; 4. across; 8. bicycle; 11. at; 14. use; 16. direction; 18. fun; 20. ride; 22. need; 23. drop; 24. is; 25. at; 27. people; 30. in; 31. gravel; 32. anger; 33. signals.
 DOWN: 1. signs; 2. ride; 3. car; 5. crime; 6. own; 7. sudden; 8. before; 9. can; 10. cars; 12. trucks; 13. ice; 15. get; 17. idea; 19. up; 21. down; 24. it's; 26. be; 28. on; 29. by.

DOWN:

1. Obey all traffic laws, _____, signals and pavement markings.
2. Never _____ double or carry big packages.
3. Listen for traffic behind you. You can't do this with a radio plugged into your _____.
5. If your bike was stolen because you forgot to lock it up, that would be a real _____.
6. Wherever possible, lock your bike to a post or other stationary object. If you don't, chances are you won't _____ a bike for long.
7. Parked cars are a constant danger. Make sure you are seen or allow room for a _____ door opening.
8. At stop signs, make complete stops. Give right of way to pedestrians and vehicles _____ you proceed.
9. A moving bicycle _____ cause serious injury, even death. Be careful!
10. Watch for _____ pulling out from driveway or curb.
12. Hitching rides by holding on to cars or _____ usually results in accidents. The driver can't see you.
13. Riding in extremely cold weather can be dangerous because you can't control your bike if there is _____ on the street.
15. Safe drivers don't _____ hurt and they don't wreck their bikes.
17. It is not a good _____ to ride in any kind of bad weather.
19. When you come out of a driveway or alley—stop! Look _____ the street both ways before you enter.
21. If you use your bike to deliver newspapers, you may need to get up at the crack of _____.
24. Give cars and pedestrians the right-of-way. _____ an act of courtesy and it is safer, too. (contraction)
26. Read the pavement. Lanes will _____ marked "left only" or "right only." You must turn in the direction of the arrow.
28. You should have a horn or bell _____ your bike that can be heard 100 feet.
29. Do, re, mi, fa, so, _____, ti, do.

Tsunami in a Box!

Rationale

Tsunamis are a series of ocean waves created by the sudden displacement of water by seismic movement of the ocean floor.

Focus

- How are tsunamis generated?
- Do earthquakes occur underwater?

Objectives

Students will be able to:

1. Generate a tsunami and observe the results on a model shoreline.
2. Relate the analogy of the motion of the lid to the motion of the ocean floor during an earthquake as a means of water displacement and subsequent tsunami generation.
3. Explain that not all underwater earthquakes will generate a tsunami.

Materials

- Glass or metal baking pan or plastic shoe box
- One liter of water
- Plastic lid of the type used to re-close coffee or margarine containers
- Punching tool or drawing compass
- Scissors
- String
- Sand
- Erasers, toothpicks, popsicle sticks, and other small object to represent shoreline features
- Book or block of wood to serve as a wedge
- Metric ruler

Procedure

1. Explain to the students:

All tsunamis are generated by a sudden displacement of water. Landslides, submarine slumps, or earthquakes can displace water. It usually requires an earthquake with a magnitude greater than 7 on the Richter scale to generate a significant tsunami. Tsunamis travel from the point of origin at a speed of 300-350 miles an hour. Earthquake (seismic) waves travel 50 times faster than tsunamis, thus seismographs would provide a warning of a potential tsunami within minutes after a large earthquake occurred. This often gives time to prepare for a tsunami after the tsunami warning has been issued.

Continued next page.

2. Ask the students:
 - a. Do earthquakes occur underwater? (yes)
 - b. How could earthquakes under the ocean ever affect people? (Accept all reasonable answers)
 - c. What is a tsunami?
3. Begin the class discussion with what the students have already learned from the tsunami curriculum.
4. Divide the students into groups, distribute materials, and give the following directions:
 - a. Use the wedge to tilt the box or pan at an angle of about 20 degrees.
 - b. Pour water into the box or pan to cover the lower end, leaving about a third of the box or pan at the upper end dry.
 - c. Pack a layer of sand 2-3cm thick on the dry end of the box or pan to simulate a beach or coastline. Use your hands to mold dunes or drifts. Draw roads parallel to the shore with a stick or your fingers. Build docks and other small, lightweight structures to complete the shore environment. Be creative.
 - d. Punch the plastic lid on one end near the rim to make a hold, and thread it with a piece of string 20cm long. Tie knots to hold the string in place.
 - e. Gently (in order not to make waves) place the plastic onto the bottom at the deep end of the box or pan. Trim to fit if necessary. The string should be next to the low side of the box or pan.
 - f. Have one student use several fingers to hold the plastic down tightly on the shallow end, while another student pulls the string up at the deep end with a rapid movement. Tsunami!

Conclusion

Ask the students:

1. What does the sudden motion of the lid represent? (The sudden motion of the ocean floor.)
2. Using the lid as an analogy, explain that like the lid, a sudden release of energy as the upward motion of the ocean floor literally pushes the water away in the form of waves, thus a tsunami.
3. Remember that not all earthquakes generate tsunamis, only those that significantly displace the ocean floor.

Volcano Erupting!

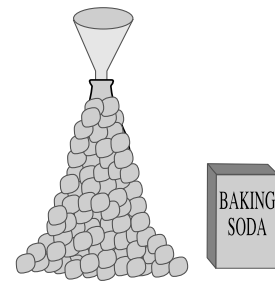
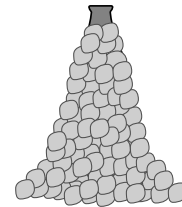
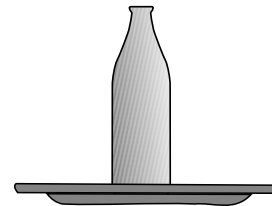
This project simulates a volcano when it erupts. Using basic household equipment and food products (vinegar and baking soda), combining the liquid mixture will produce carbon dioxide gas. That chemical reaction will in turn produce a bubbly foam that spews out of the bottle. Because the foaming action can be messy, you may want to perform the last step while out-of-doors, or on a large table that is completely covered with newspaper.

Supplies:

- Lots of newspaper
- A large aluminum baking pan
- Baking soda (about 3-4 tablespoons)
- Vinegar (about 1/2 cup)
- Liquid dishwashing soap
- Small plastic bottle (pop bottle size)
- Modeling clay
- Funnel
- Measuring spoons and cup
- Red food coloring
- Twigs and small plant branches
- Small amount of silver glitter

Construction:

1. Place the clean, empty bottle on the baking pan
2. Mold the modeling clay around the bottle to appear like a mountain — large at the bottom, building up towards the top of the bottle. Keep the top of the bottle clean, and don't let any clay fall inside the bottle.
3. Decorate the bottle to look like a mountain. Use small plant branches to represent trees.
4. Using the clean, dry funnel, pour 3 or 4 tablespoons of baking soda into the bottle. Then add a few drops of dishwashing detergent, the water, and a teaspoon of glitter.
5. In a separate container, mix a few drops of red food coloring into the vinegar.



The Eruption!

- Use the funnel to pour the vinegar mixture into the bottle, and quickly remove the funnel.
- Your volcano will erupt immediately!

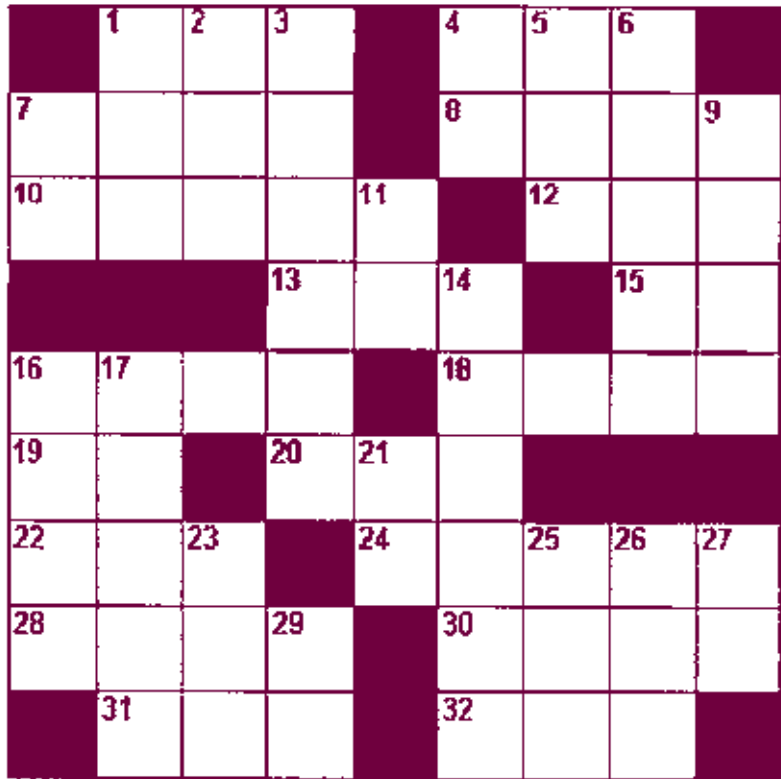
EARTHQUAKE!

ACROSS

1. This is sometimes released during an earthquake--hot!
4. ___ Mahal, famous palace
7. Sworn statement
8. Middle Eastern country with many earthquakes
10. Mess up, like paint
12. ___-center; heart of the quake
13. 'Pack up your troubles in your old ___ bag.'
15. Air Conditioning, for short
16. Asian city devastated by 1995 earthquake
18. Comes after ice- or roller-
19. North Carolina (abbr.), a place that doesn't get quakes
20. To visualize
22. Original Equipment Manufacturer (abbr.)
24. Bright, intelligent
28. Tidal ____, event sometimes caused by an earthquake
30. Sign that something bad is going to happen; some people get these before quakes
31. National Public Radio
32. Measurement of a car's speed

DOWN

1. Slang for leg
2. Had for dinner
3. The ground does this during an earthquake
4. Do Re Me Fa So La ___ Do
5. I am, You ___



6. Asian country that suffers many quakes
7. Operating System (abbr.)
9. To get a little cut
11. Northern Ireland (abbr.)
14. Slight feeling of an earthquake, or a sign of worse to come!
16. To be aware of, like a fact
17. Most earthquakes happen under here
21. Sound of the 19th letter of the alphabet
23. Most Valuable Player (abbr.)
25. Ampere, for short
26. Abbreviation for remark
27. Tennessee (abbr.)
29. Emergency Room

SOLUTION:

ACROSS: 1. gas, 4. Taj, 7. oath, 8. Iran, 10. smear, 12. EPI, 13. kit, 15. AC, 16. Kobe, 18. rink, 19. NC, 20. see, 22. OEM, 24. smart, 28. wave, 30. omen, 31. NPR, 32. RPM. DOWN: 1. gam, 2. ate, 3. shakes, 4. TI, 5. are, 6. Japan, 7. OS, 9. nick, 16. know, 17. ocean, 21. es, 23. MVP, 25. AMP, 26. REM, 27. TN, 29. ER.

