

# EARTHQUAKES AND TSUNAMIS PRE-ELEMENTARY SCHOOL TEXTBOOK

SERVICIO HIDROGRAFICO Y OCEANOGRAFICO DE LA ARMADA DE CHILE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION INTERNATIONAL TSUNAMI INFORMATION CENTER

#### **EARTHQUAKES AND TSUNAM!**

PRE- ELEMENTARY SCHOOL TEXTBOOK

#### ABOUT THE TEXTBOOK

This book is the result of both the implementation of Recommendation ITSU-XIII.3 of the Thirteenth Session of the International Co-ordination Group for the Tsunami Warning System in the Pacific, and the work of several education experts. An ad-hoc Working Group headed by H. Gorziglia (Chile), revised the work done by the experts who were partially funded by the Intergovernmental Oceanographic Commission.

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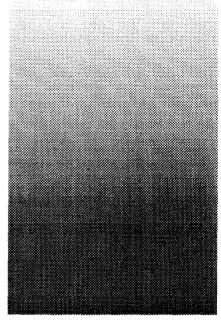
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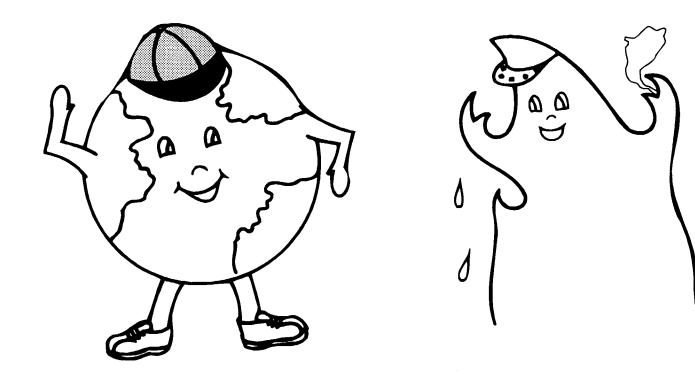


CHAPTER I

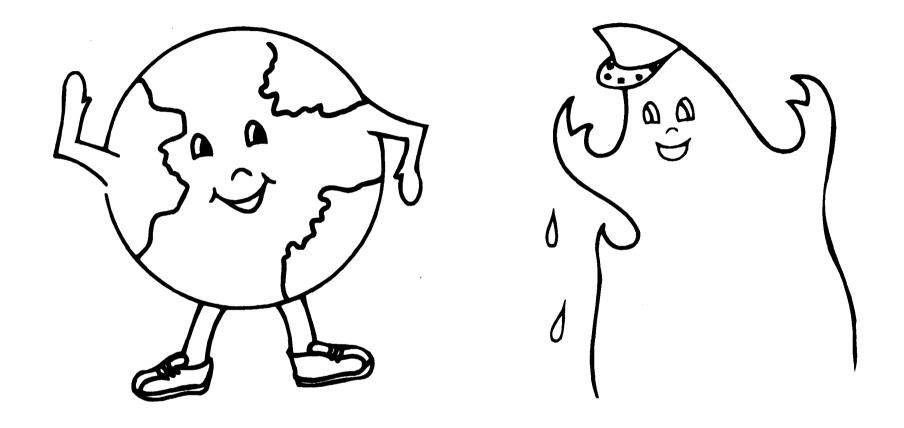
### SHAPES AND MOVEMENTS OF THE WATER



# HELLO! HERE WE ARE...



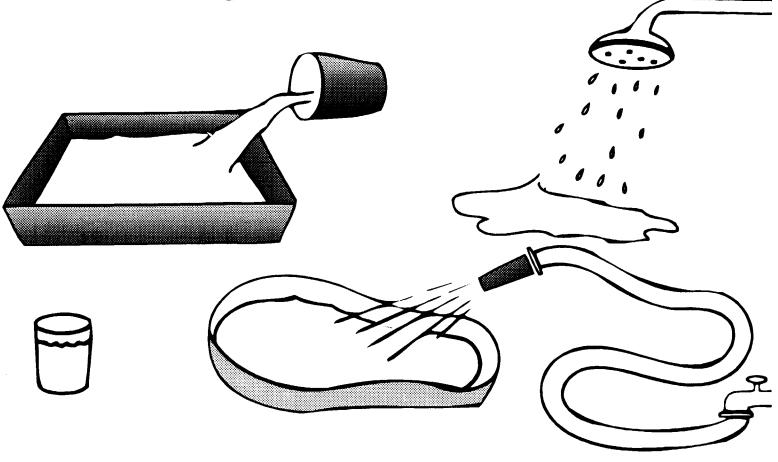
Johnny Shaking and Tommy Tsumi



Dress with the national costume and color.

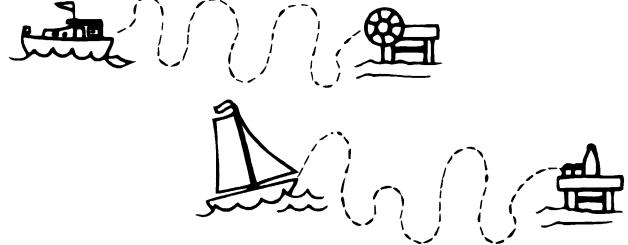
## SHAPES AND MOVEMENTS OF THE WATER

Color the water



## MOVEMENTS OF THE WATER



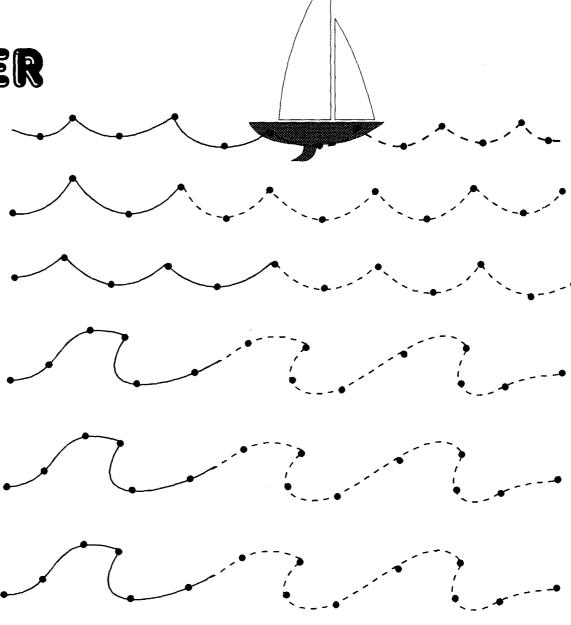


Join the traces of waves.



## MOVEMENTS OF THE WATER

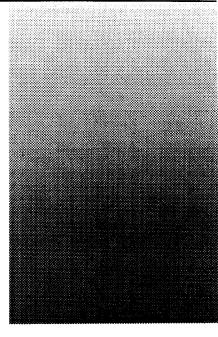
Join
the dots
to show
the waves



## USEFULNESS OF WATER

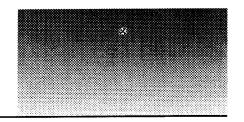
- Describe the drawingsTell experiencesColor





CHAPTER II

# PERMEABILITY AND BUOYANCY

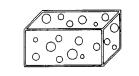


-Cut out the pictures at the bottom of the page.

-Stick permeable elements under umbrella.

-Stick waterproof elements on the unbrella.



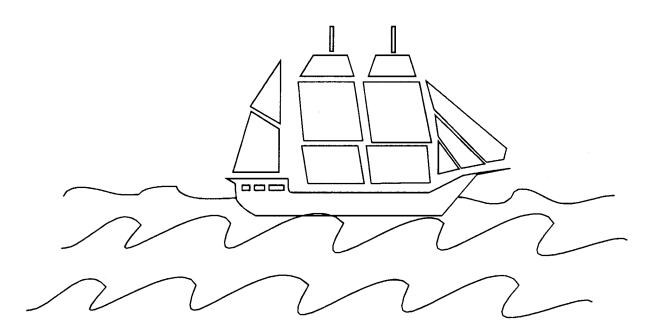




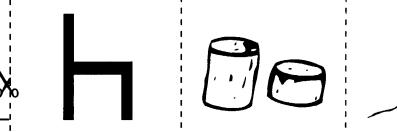


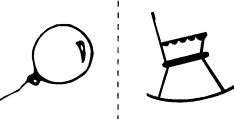
-Cut out the pictures at the bottom of the page.

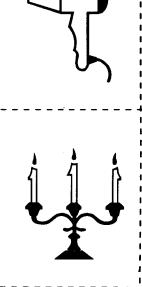
-Stick floating elements on the sailboat.



-Stick non-floating elements under the sailboat.

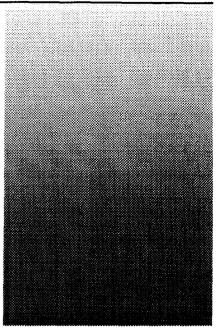










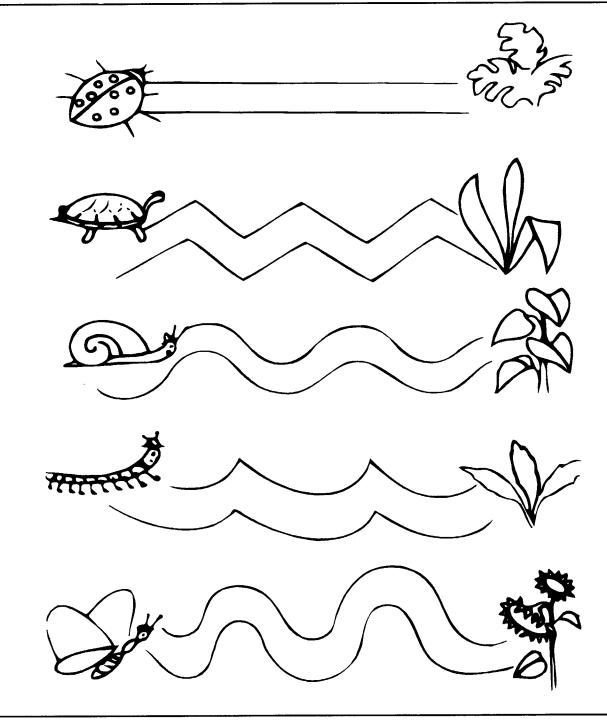


CHAPTER III

### LIFE STYLES AT DIFFERENT SETTINGS

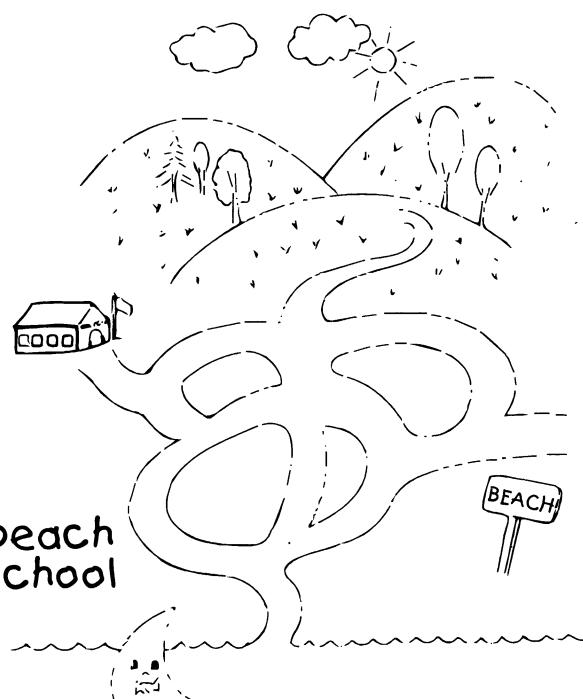


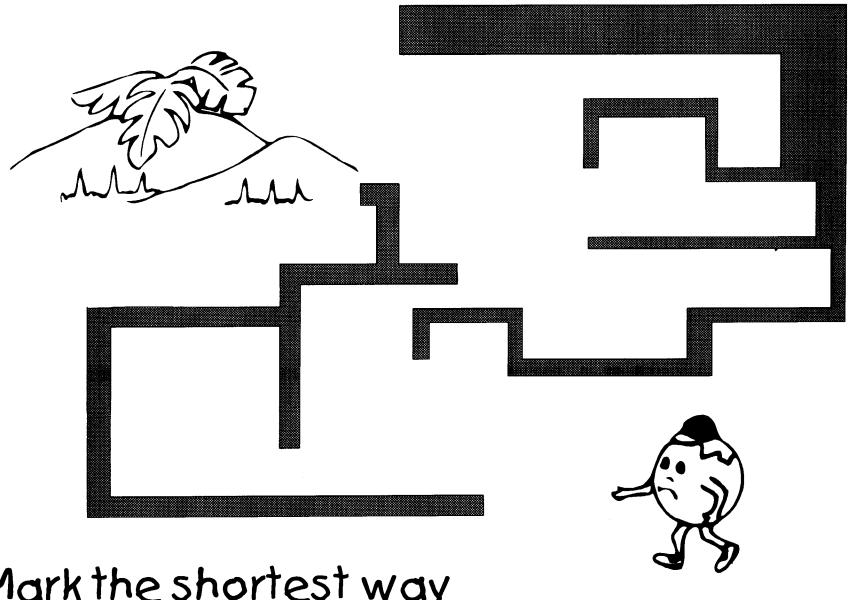
Mark the way of each animal to reach home.



Look for the shortest way to the hill.

...if you are at the beach ...if you are at the school





Mark the shortest way to reach the hill.

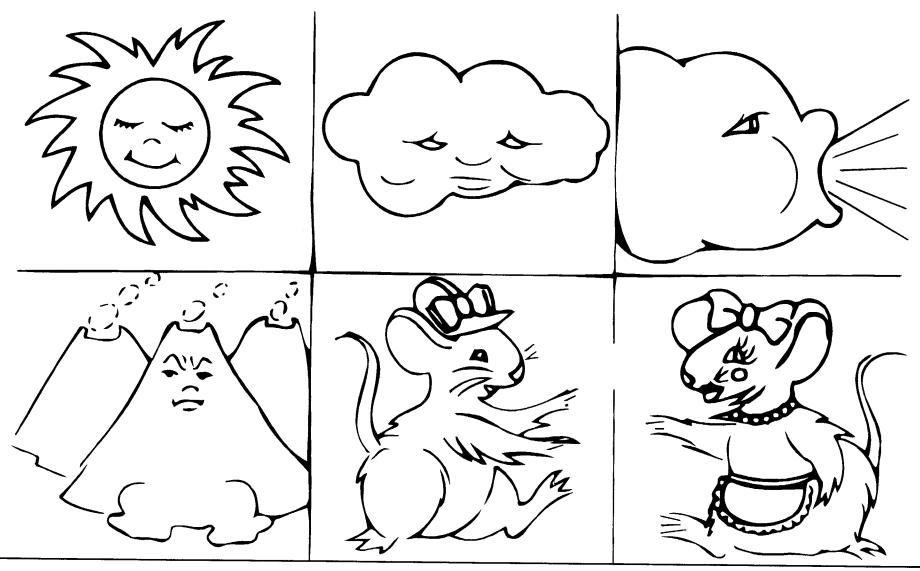
- -Invent a tale about Johnny Shaking.
  -Put the drawings in order.





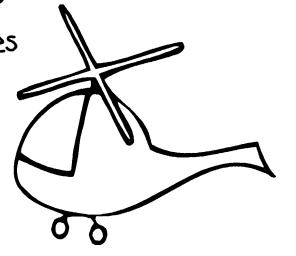
# METEOROLOGICAL PHENOMENA TALE: "THE VAIN MOUSE"

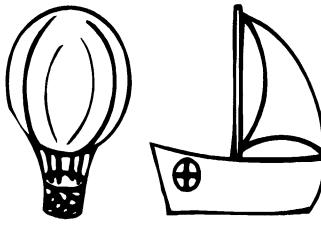
- Cut out and order the drawigs in a logical sequence..

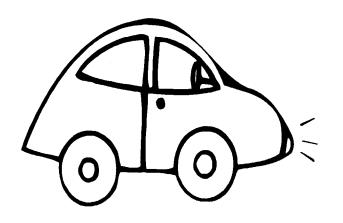


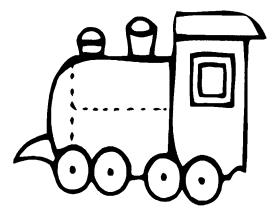
## UNFINISHED TALES

When traveling by sea swimming fishes are seen if I go sailing what shall I take...?









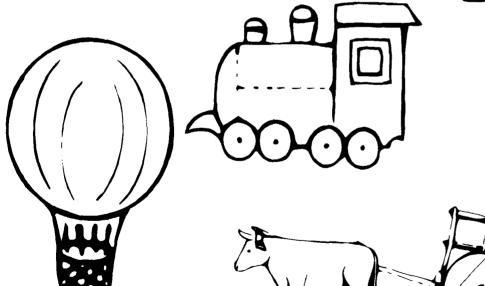
When I travel through the sea by ship, sailboat or motorboa I can navigate.
With the merry-go-round of the waves I move endlessly.

How good is to enjoy a nice walk in the country riding a horse, but I could be late.
What shall I take to arrive sooner...?

By car I can reach everywhere.

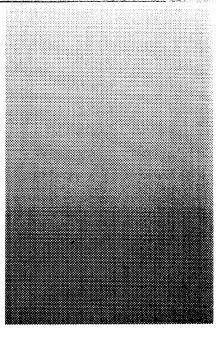






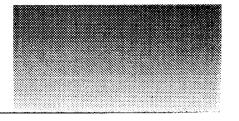
If I take a...
I could be late,
I can use a bike,
a skateboard
or simply walk,

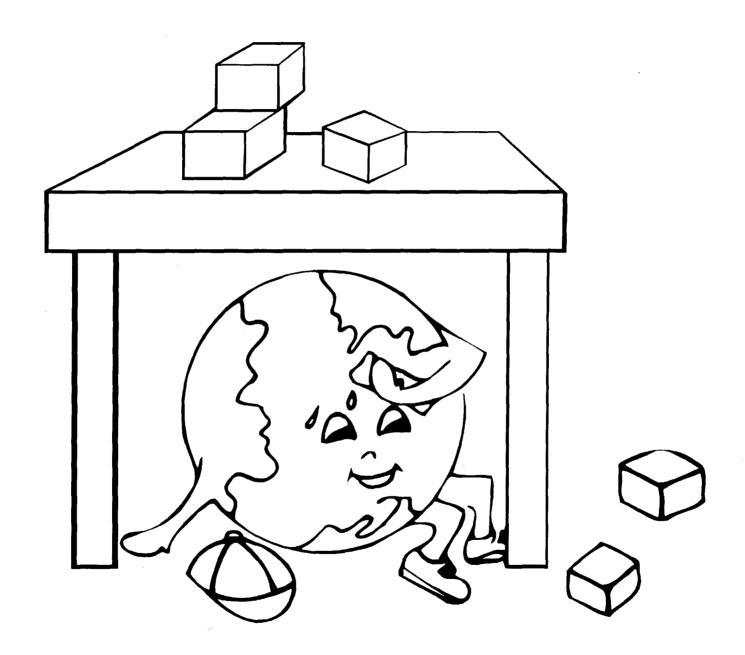
and up to the top of the hill, in time I will arrive.

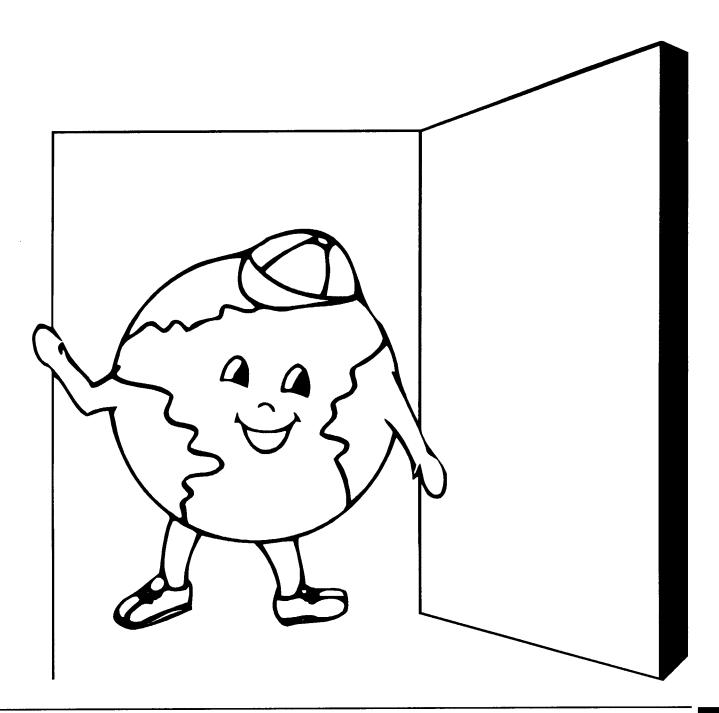


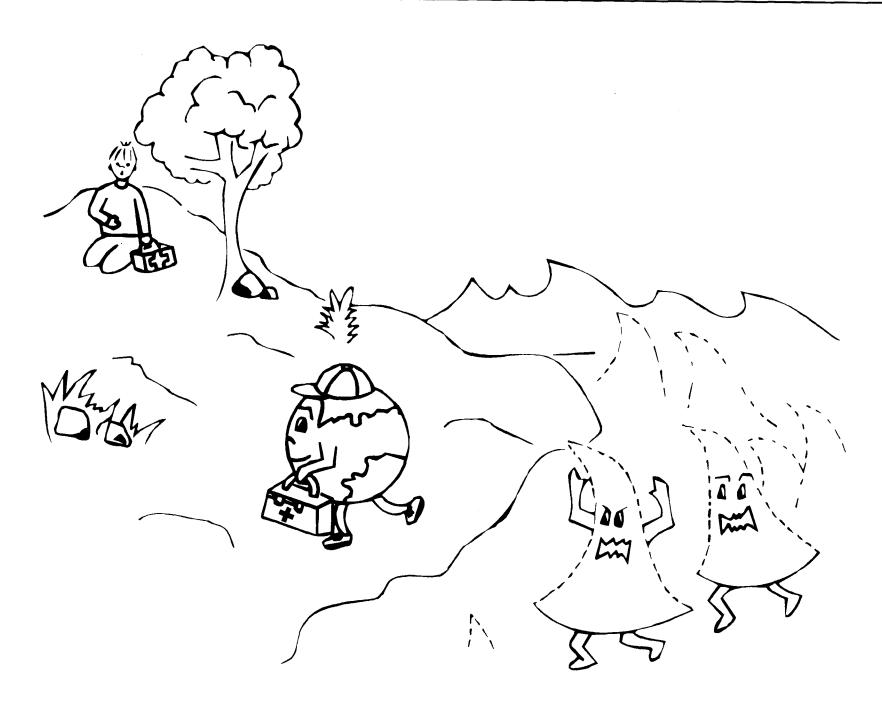
## CHAPTER IV

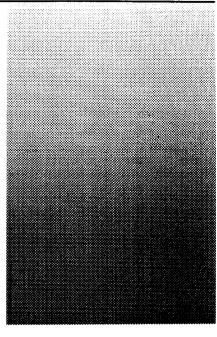
# EARTHQUAKES AND TSUNAMIS





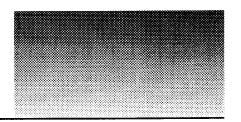


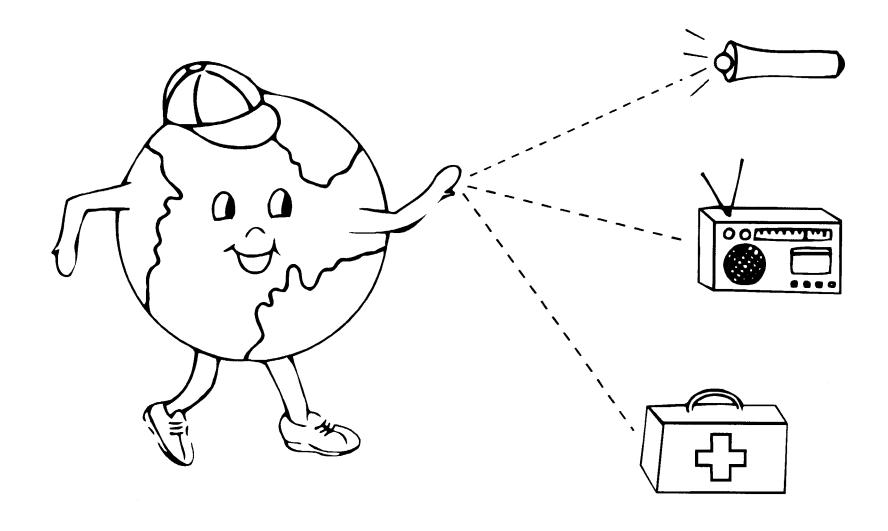


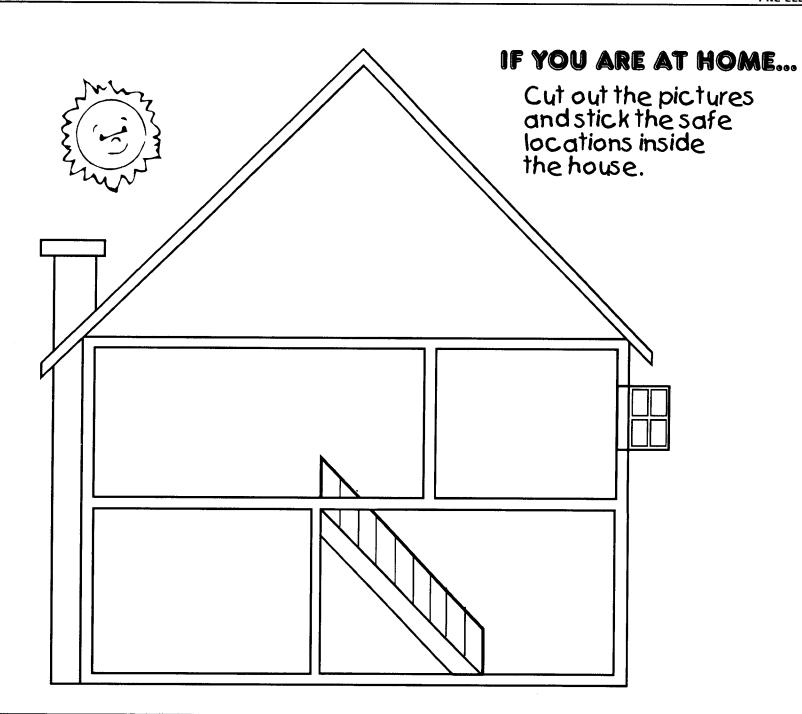


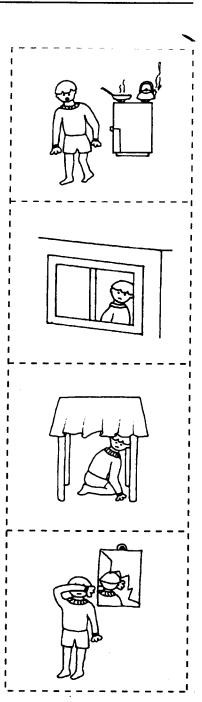
CHAPTER V

## HAZARDS PREVENTION



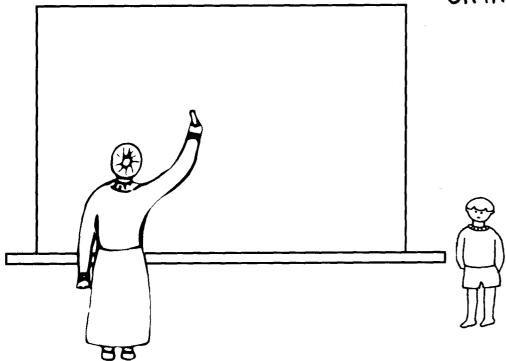


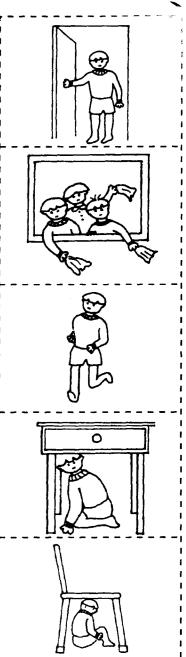


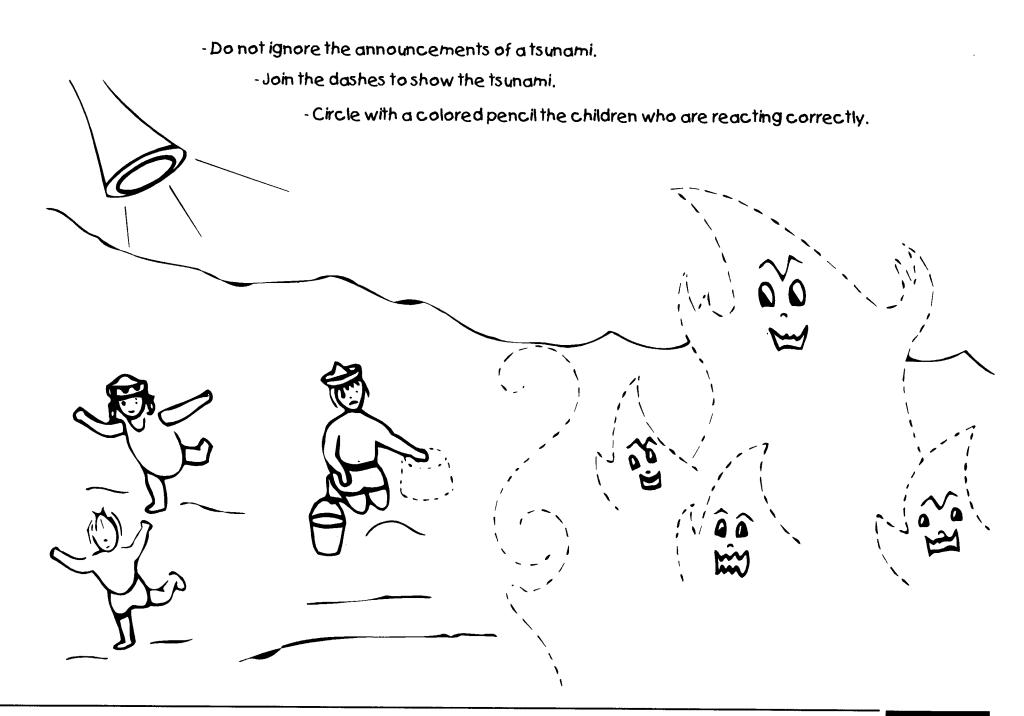


#### IF YOU ARE AT THE SCHOOL...

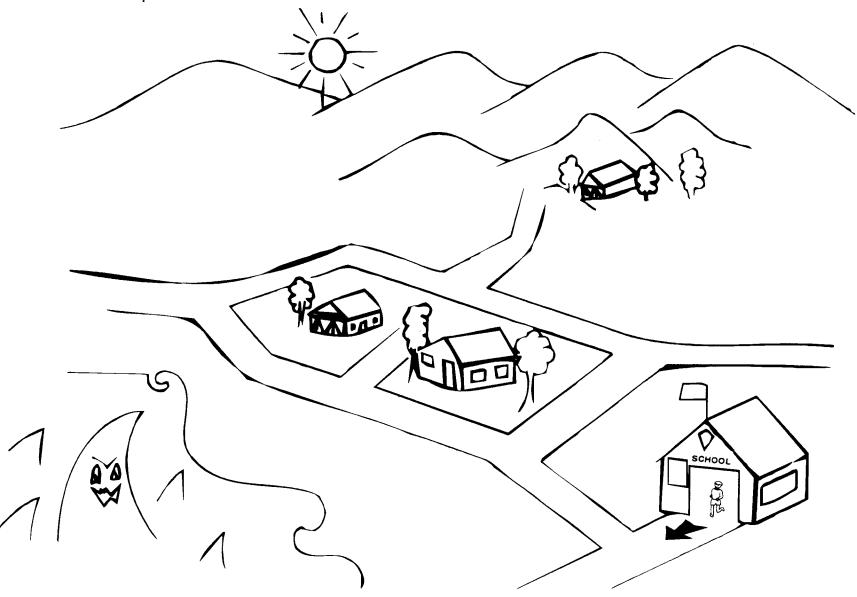
 Cut out the pictures and stick the safe locations on the teacher's blackboard.





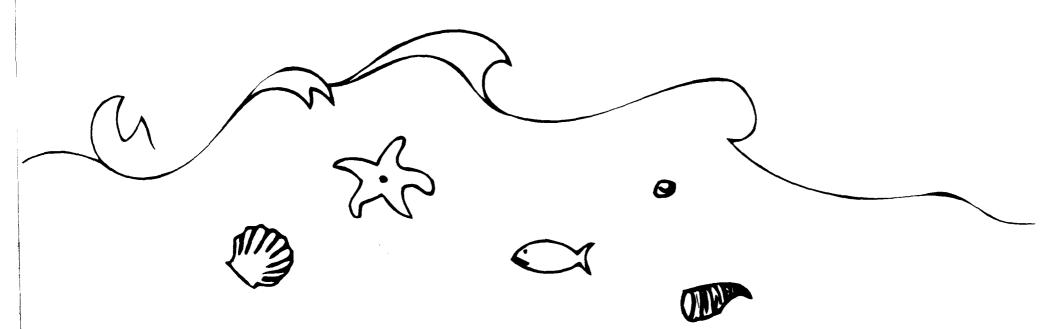


- Mark with a colored pencil the shortest way from the school to the hill.
- Color the tsunami waves.

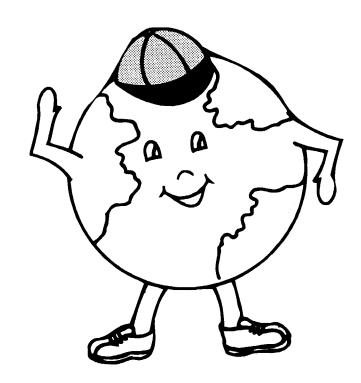








# Here we say... Good-bye!!





Johnny Shaking and Tommy Tsumi