

TEACHER MATERIALS - Temperature

CONCEPTS: Math, Science, and Technology
-Standard 4.3, 4.4- Physical Setting
-Standard 4.3- Living Environment
Career Development
-3a.2- Thinking Skills

- OBJECTIVES:**
1. Students will demonstrate their understanding that animals and plants have protective parts that enable them to survive (by describing the function of different parts).
 2. Students will be able to describe what happens to properties of objects as they are subjected to heat and cold.
 3. Students will express their knowledge of seasonal differences in a drawing exercise.

BACKGROUND: Plants and animals have protective parts that enable them to withstand both natural elements and enemies. These exercises address the adaptations of living things to weather changes, particularly heat and cold, and also help students become more aware of the protective functions of bodily coverings.

- ACTIVITIES:**
1. Have the students complete the worksheets.
 - 2a. Suggested items:

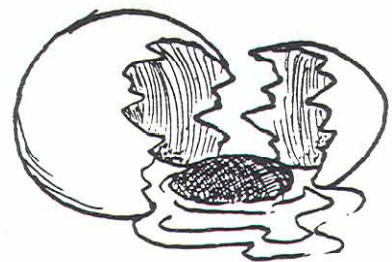
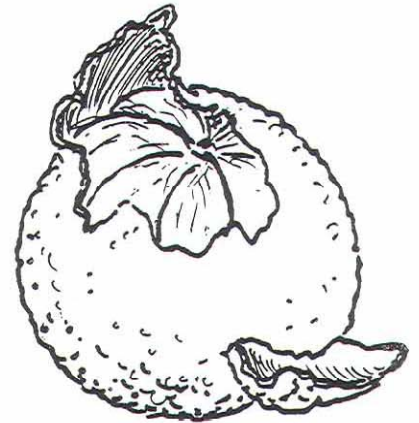
sunglasses	suntan lotion
beach hat	beach robe
bathing suit	sandals
life jacket	beachball
drinks	food
 - b. On the back of the paper, ask the students to draw winter weather items.

Name _____

All Wrapped Up

Chocolate makers wrap chocolate bars in foil and paper to protect them from damage. Nature provides a "wrapping" to many plants and animals to protect them from harm or damage. Can you think what the "wrapping" or covering might be for each of these?

- | | |
|-----------------------|--------------|
| _____ 1. egg | A. feathers |
| _____ 2. orange | B. your hair |
| _____ 3. peanut | C. eggshell |
| _____ 4. cat | D. your skin |
| _____ 5. fish | E. husk |
| _____ 6. robin | F. bark |
| _____ 7. tree trunk | G. shell |
| _____ 8. your head | H. thorns |
| _____ 9. your muscles | I. fur |
| _____ 10. elephant | J. scales |
| _____ 11. ear of corn | K. peel |
| _____ 12. rosebush | L. skin |



Name _____ Answer Key _____

All Wrapped Up

Chocolate makers wrap chocolate bars in foil and paper to protect them from damage. Nature provides a "wrapping" to many plants and animals to protect them from harm or damage. Can you think what the "wrapping" or covering might be for each of these?

- | | | |
|--------------|-----------------|--------------|
| <u> C </u> | 1. egg | A. feathers |
| <u> K </u> | 2. orange | B. your hair |
| <u> G </u> | 3. peanut | C. eggshell |
| <u> I </u> | 4. cat | D. your skin |
| <u> J </u> | 5. fish | E. husk |
| <u> A </u> | 6. robin | F. bark |
| <u> F </u> | 7. tree trunk | G. shell |
| <u> B </u> | 8. your head | H. thorns |
| <u> D </u> | 9. your muscles | I. fur |
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| <u> E </u> | 11. ear of corn | K. peel |
| <u> H </u> | 12. rosebush | L. skin |

Name _____

Some Like It Hot

Temperature changes can make us uncomfortable. Tell what might happen to each thing below if:

A. It got hot: egg _____

chocolate bar _____

ice cube _____

dog _____

you _____

elephant _____

flower _____

ice cream _____

B. It got cold: pond _____

flower _____

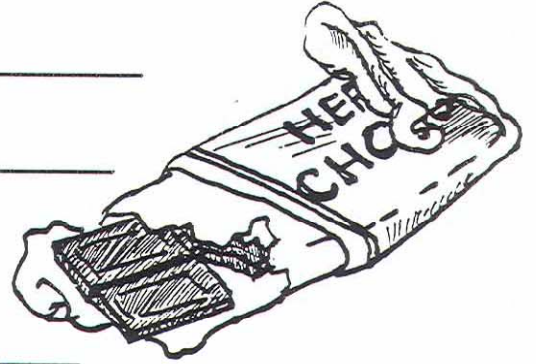
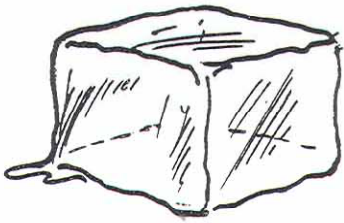
bear _____

goose _____

rain _____

orange tree _____

you _____



Name _____ Answer Key _____

Some Like It Hot

Temperature changes can make us uncomfortable. Tell what might happen to each thing below if:

- A. It got hot: egg _____ cook _____
chocolate bar _____ melt _____
ice cube _____ melt _____
dog _____ pant and drink water _____
you _____ sweat and drink water _____
elephant _____ spray itself with water _____
flower _____ wilt _____
ice cream _____ would soften and melt _____

- B. It got cold: pond _____ freeze over _____
flower _____ drop petals; freeze _____
bear _____ hibernate _____
goose _____ fly south _____
rain _____ turn to freezing rain; sleet _____
orange tree _____ stop producing fruit; freeze _____
you _____ bundle up; exercise _____

Name _____

Vacation Time

Both summer and winter vacations can be fun if you are dressed properly and prepared for the weather. Help Juanita pack for her vacation in Florida by drawing the things she will need.

