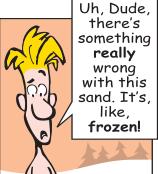
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Why are sunny winter days COLD, while sunny summer days are HOT? *Kid Scoop's* winter expert Dr. I. Cicle explains it all!





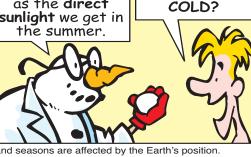


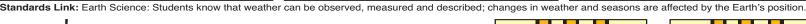


The Earth tilts on its axis as it travels around the sun. In the winter, if the part of the Earth where you live is tilted away from the sun, it gets indirect sunlight.



Indirect sunlight That is so cool! doesn't warm up Now, why is the Earth as much this sand so as the **direct** COLD? sunlight we get in the summer.







I'm glad you asked!

Let's pretend this

snowball is Earth.

Experiment Tells All

Try this experiment to understand the difference between indirect and direct sunlight.

Keep track of your work on a separate sheet of paper like the Scientist's Notebook.

Stuff you need:

or flat pans

• 2 metal pie tins

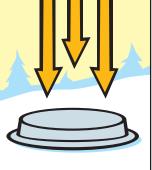
• a sunny winter

watch or clock

pan in

indirect

sunlight







(Fig. 2) indirect sunlight

What to do:

- 1. Lay one pan flat on the ground in the direct sunlight. (Fig. 1)
- 2. Tilt the other pan on its side. Lean it against a rock or a shoe. This pan is being hit with indirect sunlight. (Fig. 2)
- **3.** Wait three minutes.
- **4.** Which pan is warmer?

Standards Link: Investigation: Students will make predictions based on observation; answer meaningful questions and draw conclusions.

SCIENTIST'S NOTEBOOK								
Question	Hypothesis	Observation	Conclusion					
you think wi feel warmer after three	Which pan do you think will feel warmer after three minutes in the What do you think the answer to the question is?		Was your hypothesis correct? What did you learn from this experiment?					

___ pan in

indirect

sunlight

Without the Sun ... Without the sun

we wouldn't have newspapers because newsprint is made from trees and trees need the sun to grow. Look through the newspaper for other things that need the sun to exist.

Standards Link: Language Arts/Research
Use the newspaper to locate information.

Sun Spot Mystery

The sun is covered with spots! Use the spots to solve the mystery questions.

How far is the sun from the Earth?

million miles (149.6 million km)

How long does it take the sun to make one complete rotation?

n Earth days

What is the diameter of the sun?

ンメア さると miles. (1.4 million km)

WARNING! Never look directly at the sun as this can damage your eyesight!

Kid Scoop Word Search

SUNLIGHT EXPERIMENT SUMMER MILES

PAPER DIAMETER HYPOTHESIS METAL

WINTER SAND SNOWBALL PAN

AXIS

SHOE

Find the words by looking up, down, backwards, forwards, sideways and diagonally.

SISEHTOPYH DALLABWONS I W N I R E M M U S A S S D N X T N E R MIMETALRSE EXPERIMENT T A R S G T L P U N EEOHSINASI RHTIMNAPNW

Standards Link: Letter sequencing. Recongized identical words. Skim and scan reading. Recall spelling patterns.

SMART FUN AT HOME

One important thing to understand when you read is cause and effect.

For example, in the legend of Groundhog Day, when the groundhog sees his shadow, he goes back in his burrow. In this case, the **effect**

is that the groundhog goes back in his burrow. That is what happens. What causes him to go back in his burrow? Getting frightened by his shadow.

Try It!

- 1. With a parent or learning buddy at home, select an article from today's newspaper. Read the headline. Discuss what you think caused the news reported in the headline.
- **2.** The headline usually tells what happened. This is called an effect. Read aloud to your learning buddy the first paragraph of the article. Does this tell you the cause? Read the rest of the article aloud. After each paragraph, stop and discuss what you have learned about what caused the news reported in the headline.

Complete the following:

HEADLINE (effect):

CAUSE(s):

NAME:

NAME OF LEARNING **BUDDY**:

Standards Link: Reading Comprehension: Distinguish between cause and effect in text.

Kid Scoop

This week's word: **HYPOTHESIS**

The noun **hypothesis** means a suggestion or guess not proved but the basis for further study.

The class was asked to test their hypothesis.

Try to use the word hypothesis in a sentence today when talking with your friends and family.

Lesson Library

Standards Link: Earth Science: Students know about the sun, planets and stars.

Who cares about the weather? Why is the weather report important to different

people? Why is it important to a farmer, an astronaut or a fireman? Find an article or picture in the newspaper of a person who cares about the weather. Tell why this person cares.

Standards Link: Reading Comprehension: Understand the main idea and supporting details in expository text.



ANSWER: Ice caps.

Write a poem about winter or winter weather.

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