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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!





That's SNOW? But it's, like, because sunny today. So why isn't the snow, like, melted? it isn't sand. It's snow!



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 doesn't warm up the Earth as much as the **direct sunlight** we get in the summer.

That is so cool! Now, why is this sand so COLD?



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standards Link: Earth Science: Students know that weather can be observed, measured and described; changes in weather and seasons are affected by the Earth's position.



## **Experiment Tells All**

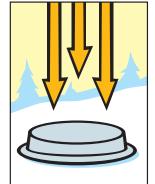
Try this experiment to understand the difference between indirect and direct sunlight.

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







(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

#### **Hypothesis Observation** Conclusion

Which pan do you think will feel warmer after three minutes in the winter sun?

Question

What do you think the answer to the question is?

pan in direct

sunlight

indirect

sunlight

pan in

Which pan was warmer in three minutes?

pan in direct sunlight

pan in indirect sunlight Was your hypothesis correct? What did you learn from this experiment?

## 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: anguage 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?

ナメア (1.4 million km)

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

**WARNING!** 

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

## 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.

ISEHTOPYH DALLABWONS I W N I R E M M U S A S S D N X T N E R MIMETALRSE EXPERIMENT TARSGTLPUN E E O H S I N A S I RHTIMNAPNW

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

# Lesson Library

### 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.

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