

Jim Henson's

# SID the Science KID

## Why Did My Ice Pop Melt?



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“Oh, no!” Sid cries, spotting an orange puddle on the table. “My ice pop! I forgot about it, and now it’s all melted!”



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Sid asks, “Why can’t ice pops *stay* frozen? Have *you* ever wondered why frozen things melt?”

Sid picks up the ice pop stick and hurries downstairs. "Look, Mom and Dad!" he says. "I left my ice pop on the table, and it melted!"

"Sid!" Mom is not happy. "You left an ice pop out overnight?" she asks.



Sid promises to clean up the melted mess. "But then can we make more ice pops?" he asks. Dad smiles. "Sure," he says.

After breakfast Mom and Dad help Sid make two more ice pops—one for Sid and one for his friend Gabriela, who's visiting after school.

Mom puts the ice pops in the freezer. "Now all you have to do is wait," she says.



A minute later, Sid opens the freezer door again. "Hey, they're not ready yet!" he complains.

Dad laughs. "The juice needs more time to freeze, Sid!"



At school Sid has a question for his friends. "Has a frozen treat ever melted before you could eat it?"  
"Yes, an ice-cream sandwich!" says May.

"A red, white, and blue ice pop," Gabriela adds.  
Gerald grins. "My bowl of ice cream melted once. It changed into cherry, banana, and chocolate chip *soup*!"



Soon Teacher Susie says it's rug time.  
Sid tells her that he is wondering about why frozen things melt.  
"If you want something to stay frozen," Teacher Susie asks,  
"where is the best place to keep it?"  
"The freezer!" everyone calls out.



May turns to Sid. "That's why your ice pop melted," she says. "It wasn't in the freezer!"

Teacher Susie explains that as liquids get colder, they freeze.  
When the ice isn't kept cold, it melts.

Sid has a new question. "Can you freeze liquid *back* into ice?"



"Yes." Teacher Susie nods. "When something can change back and forth, it's called *reversible change*. Come on!" she adds with a big smile. "Let's investigate freezing and melting in the Super Fab Lab!"

Teacher Susie shows everyone a block of ice. Sid is amazed to see fruit frozen inside! "That fruit is going to be our snack today!" Teacher Susie tells them.

"But . . ." Gabriela is confused. "How are we going to get it?" she asks.



"We can wait for the block of ice to melt into water," says Sid. Then he remembers something important. "Oh, no! It takes a *long* time for ice to melt."



Everyone thinks of ways to make the ice melt faster.  
“What if we pour something warm on the block of ice?” Sid asks.



“Good idea,” Teacher Susie replies. “Is there some sort of liquid we could use?”



Gabriela spots the sink. “Warm water!” she says.

Teacher Susie pours warm water over the block of ice. “Now try to get the fruit out,” she tells everyone.

But the ice is still frozen solid.

Teacher Susie pours more water on the ice—and then some more. At last the ice begins to melt, and the friends can get their snack.



“Mmm,” Gerald says happily.  
“These grapes are good and cold!”





On the way home from school, Sid and Gabriela tell Sid's grandma about melting and freezing.  
"Ice can melt into water, and water can freeze into ice," explains Sid.



"It's called *reversible change!*"  
the friends say together.