



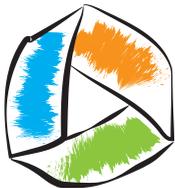
Nilofer's Not-So-Good Goodies

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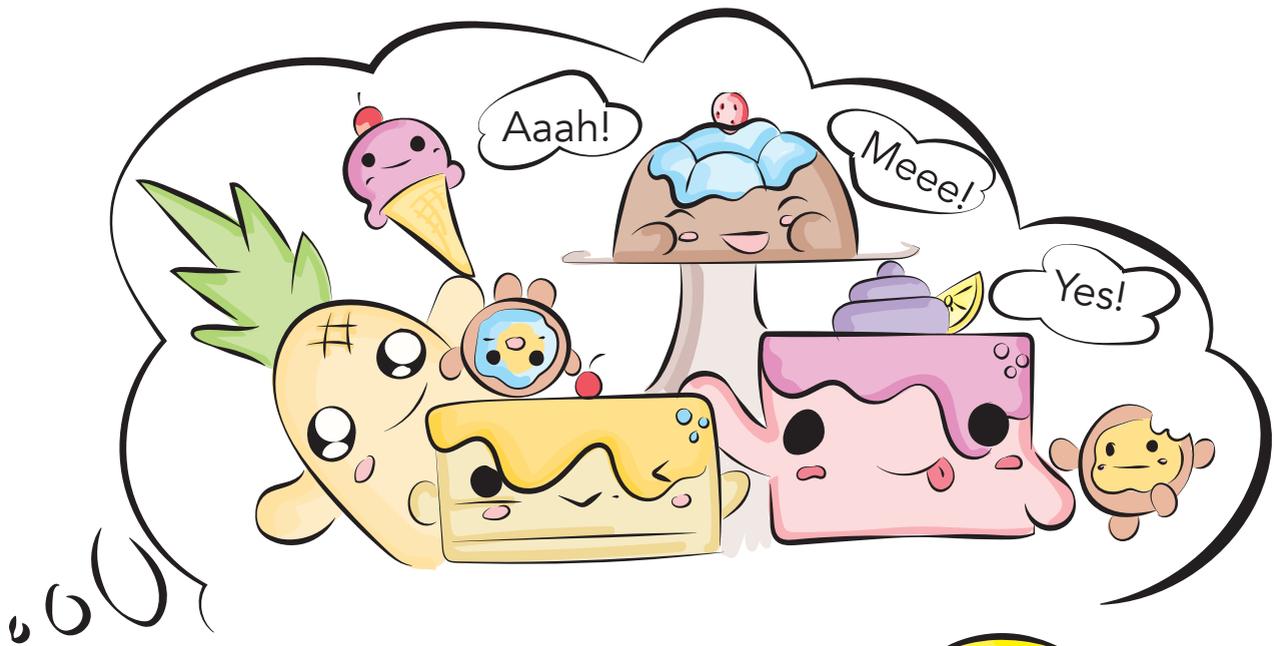
Matter and Its Interactions 2-PS1-1.

Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

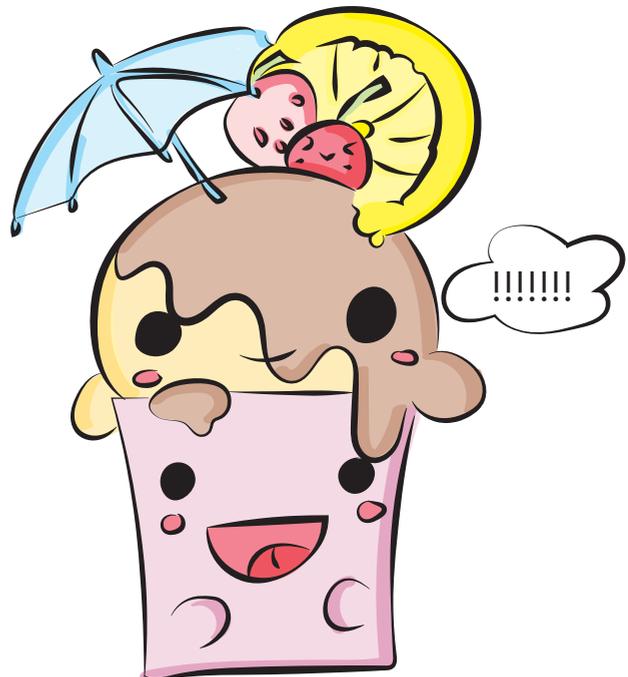


Nilofer's Not-So-Good Goodies

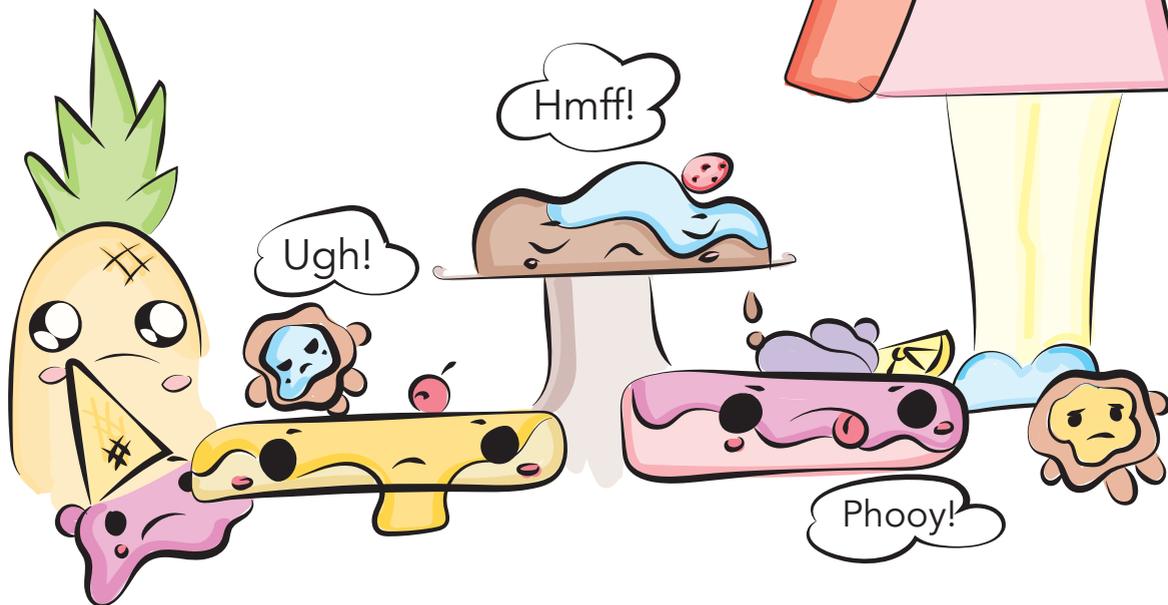
Nilofer had recently opened a charming little bakery, right by the beach. She had dreamed of people lining up outside to buy delicious brownies, muffins and cakes.



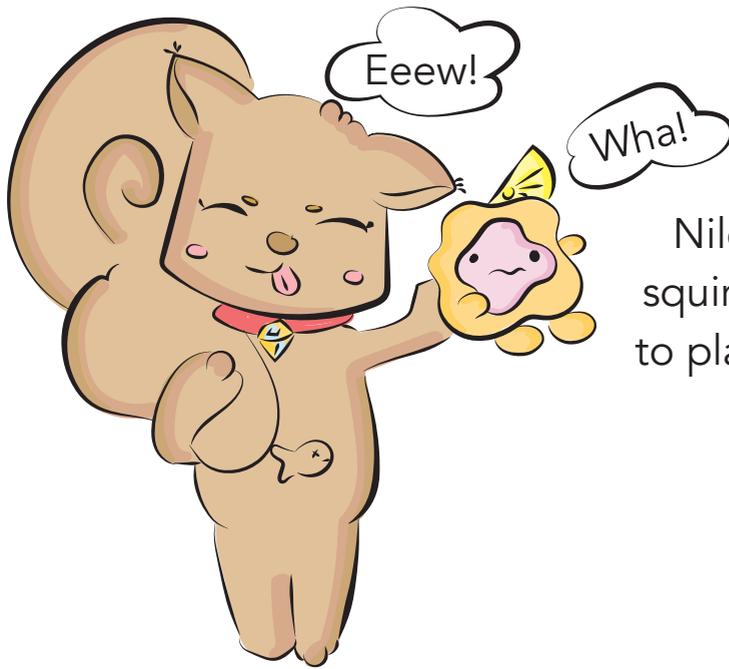
She had even planned to make hot fudge sundaes with homemade vanilla ice cream!



However, Nilofer's dreams were far from coming true. She looked around her bakery in disappointment. Frosting was sliding off cupcakes and her bread looked like pancakes. Bits of scrambled eggs floated around her cake batter. The cakes themselves were as stiff as cardboard and her cookies tasted like dog biscuits.

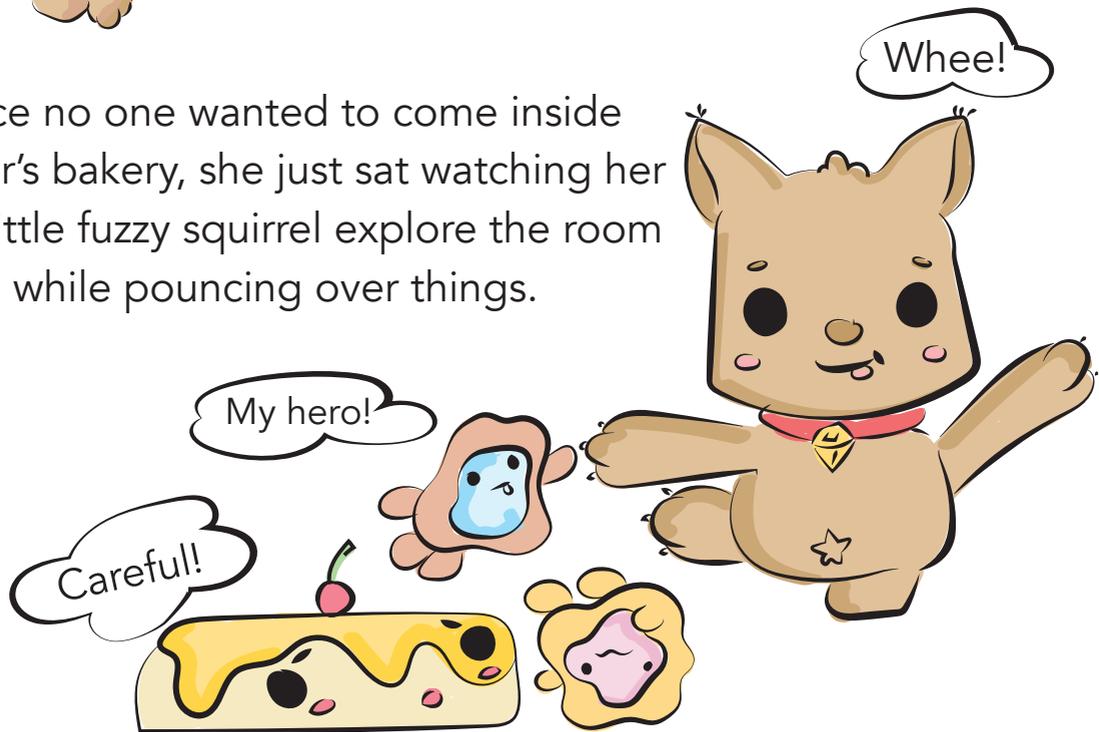


The bakery of her dreams was a nightmare. Nilofer sat with her head in her hands. She felt she would burst into tears at any moment.



Nilofer had a cute little pet squirrel named Kiki who loved to play and who never seemed to go to sleep.

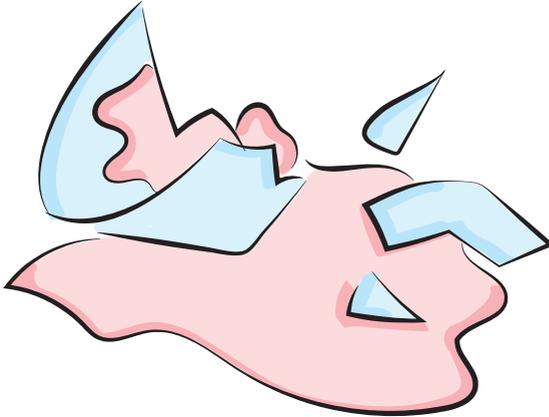
Since no one wanted to come inside Nilofer's bakery, she just sat watching her cute little fuzzy squirrel explore the room while pouncing over things.



Then Kiki jumped up on the kitchen counter top. "Kiki! No! Not my kitchen counter!" gasped Nilofer.



But before she could say another word, Kiki raced right past her mixing bowl full of cake batter knocking it right off the counter top.



The glass mixing bowl fell to the floor and shattered, making a sharp and sticky mess to clean up.

Glass can easily break or shatter. Glass is brittle. Nilofer needs a material other than glass for her mixing bowl. What should she use?



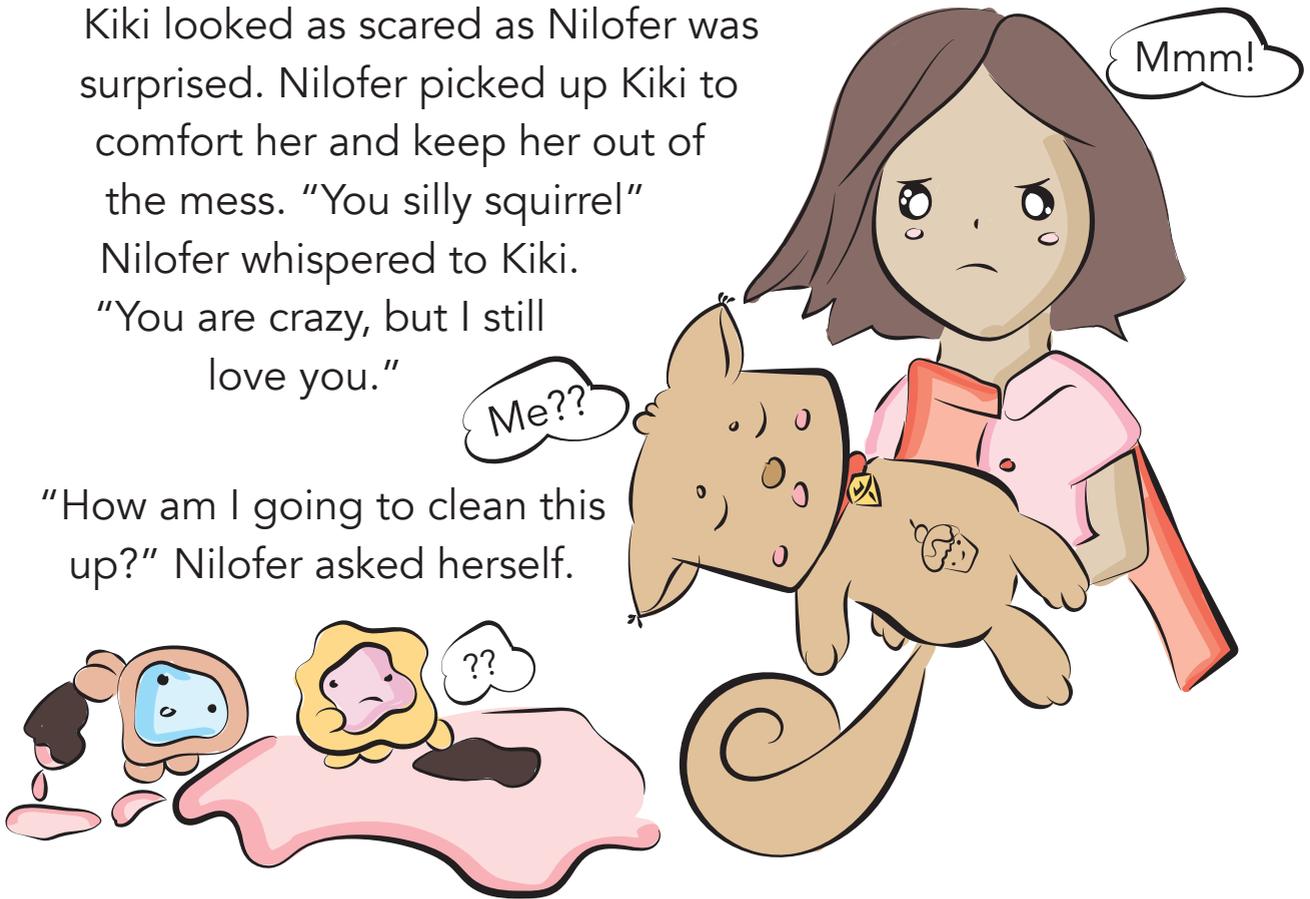
Think,
Pair,
Share!

What type of material should Nilofer use for a mixing bowl around Kiki?

What material could she use for her bowl?

Kiki looked as scared as Nilofer was surprised. Nilofer picked up Kiki to comfort her and keep her out of the mess. "You silly squirrel" Nilofer whispered to Kiki. "You are crazy, but I still love you."

"How am I going to clean this up?" Nilofer asked herself.



First, she swept up all the glass with a broom and then she started wiping the floor with a plastic bag, but the mess just got worse and the floor just got stickier! The more she rubbed the more she spread the mess all around.

Plastic bags are not absorbent, so they do not soak up liquids well. Nilofer needs a material other than plastic to clean up the mess.



Think,
Pair,
Share!

What types of materials should Nilofer use to clean up a sticky mess?

What could she use to clean up her mess?



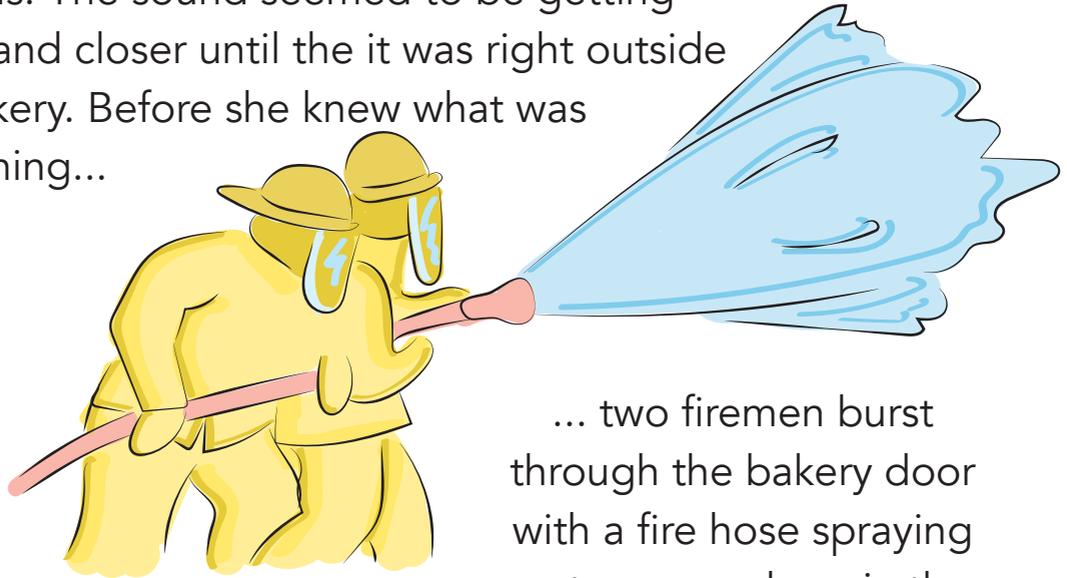
Just then, smoke started pouring out of her oven and filled the room.

Nilofer quickly turned off the oven and opened her windows to let the smoke out, and then she put her head in her hands and cried.



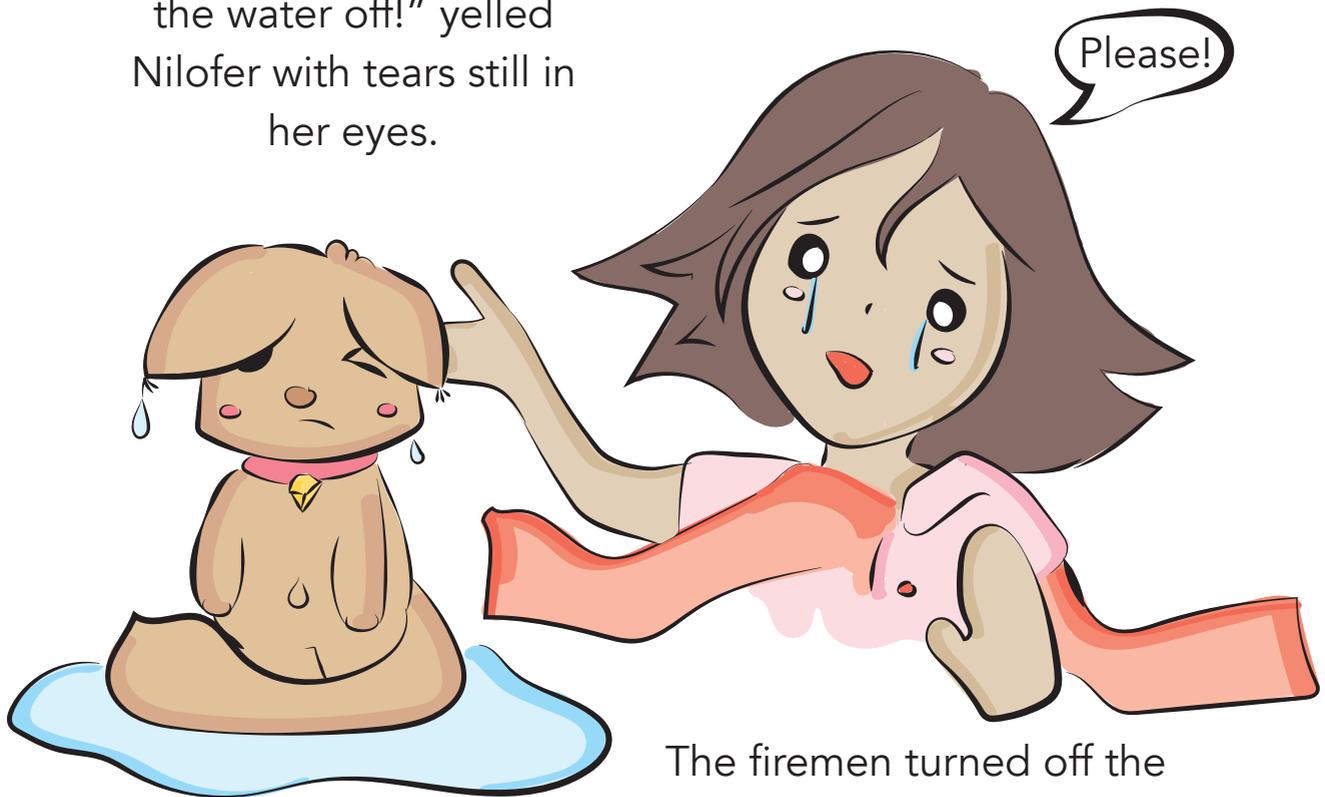
She really needed help. What was the matter with her bakery? How was she going to solve her problems? How could Nilofer learn to make the yummy goodies of her dreams?

A few minutes later, she heard the distant sound of sirens. The sound seemed to be getting closer and closer until the it was right outside her bakery. Before she knew what was happening...



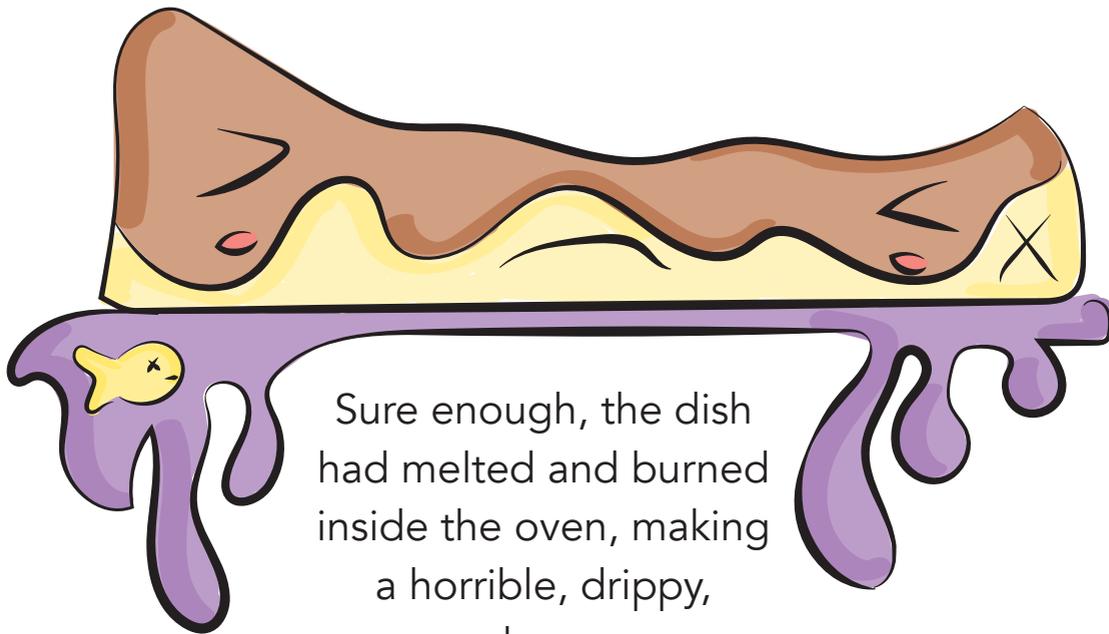
... two firemen burst through the bakery door with a fire hose spraying water everywhere in the smoke-filled room.

“Stop it right now! Turn the water off!” yelled Nilofer with tears still in her eyes.



The firemen turned off the water and set the hose down.

The firemen comforted Nilofer and helped her clean up the mess, even the burned mess in the stove. She thanked the firemen for being so kind to her. One fireman held a melted, burned plastic dish. "Excuse me Miss, it looks like you used a plastic dish to bake your cake. Did you know that plastic melts at your oven's baking temperature?"



Plastic can melt in an oven. Nilofer needs a material other than plastic to use as a cake pan.



Think,
Pair,
Share!

What type of material should Nilofer use for the cake pan?

What material would be good to use as a pan in a hot oven?

The next day Nilofer went out to get some fresh air, away from the disastrous bakery. She decided to take a stroll along the beach and dip her toes in the water.



As Nilofer walked along, she collected pretty seashells, smooth pebbles and beautiful beach glass. She also found plastic litter, paper, wood and even metal. She thought about all the materials that she had found on the beach.

Can you help Nilofer?

You tested and described the properties of many of these materials in your sorting activity, didn't you? Can you recommend materials for Nilofer to use in the kitchen?



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