

# For a change

#### **Observations**

When ice cream melts, you can make it hard again by cooling it in a freezer. You can make frozen ice cream soft by heating it up. These changes can be reversed (changed back). When a match burns, it changes into ash and smoke. You cannot change the ash and smoke back into a match. This change cannot be reversed.

## Science activity

For each of the changes described below, draw a circle around the  $\boldsymbol{\mathsf{H}}$  if the change can be reversed by heating, around the  $\boldsymbol{\mathsf{C}}$  if the change can be reversed by cooling, and around the  $\boldsymbol{\mathsf{N}}$  if it can never be reversed.









Charcoal is burned on a barbecue

H, C or N?

Jell-O hardens in the refrigerator

H, C, or N?

Flour, eggs, sugar, and butter are made into a cake

H, C, or N?

Butter becomes soft in the dish

H, C, or N?

Bread is made into toast

H, C, or N?

Water turns to ice in the freezer

H, C, or N?

Chocolate melts and becomes runny

H, C, or N?

## Science exploration

What happens to M&M candies when placed in water? Place one M&M in each of three different see-through cups and cover each with 4 tablespoons of water. Is the reaction reversible?







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## Science activity

For each of the changes described below, draw a circle around the H if the change can be reversed by heating, around the C if the change can be reversed by cooling, and around the N if it can never be reversed.









Charcoal is burned on a barbecue

Jell-O hardens in the refrigerator

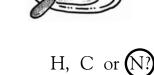
Flour, eggs, sugar, and butter are made into a cake

Butter becomes soft in the dish

Bread is made into toast

Water turns to ice in the freezer

Chocolate melts and becomes runny



(H,) C, or N?

H, C, or (N)

H, (C,) or N?

H, C, or  $\mathbb{N}$ 

(H) C, or N?

H, **(**C,**)** or N?

## Science exploration

The child learns that some changes are reversible and some are not. In the activity, ask the child to explain his or her choice.

