



# Temperature Affects Chemical Change

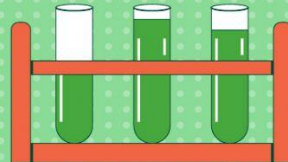
Changes in temperature can speed up or slow down a chemical reaction. Heat causes some substances to decompose and form new substances.

Perform the following experiment or watch this video.  
Then answer the questions below.



## Step 1

Label 3 glasses A, B and C. Put boiling water in A, tap water in B and ice cold water in C. Make sure each glass contains the same volume of water. Drop one Alka-Seltzer or Berocca tablet in each glass. Use a stopwatch to measure the time it takes the tablet to dissolve completely.



## Step 2

Record your data here.

Glass	Temp	Time
A	Hot	
B	Room	
C	Cold	

## Step 3

In what glass did you predict the tablet will dissolve the fastest? Is your prediction correct?



## Step 4

What is the effect of temperature on the reaction rate of the tablet?



## Step 5

How does temperature affect the food placed in the refrigerator?

