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Does the temperature of water affect the speed of dissolving?



Put 3 spoonfuls of sugar in a jar of cold/warm/hot water and time how long it takes to dissolve. Carry out 3 tests, one for each temperature and time how long it takes for the sugar to dissolve.

Which temperature water do you think will dissolve the sugar fastest?



cold water



warm water



hot water

cold water __ °C	warm water __ °C	hot water __ °C

Repeat the tests to make the results more fair.

cold water __ °C	warm water __ °C	hot water __ °C

Find the average time for each temperature.

cold water __ °C	warm water __ °C	hot water __ °C

Conclusion

How does the temperature of the water affect the time it takes the sugar to dissolve?

Soluble or Insoluble - Does it dissolve?



Will the materials in the table below dissolve in water? Test the materials and complete the table.

Material	Does it dissolve?
sand	
chalk	
flour	
rice	
coffee granules	
sugar	
salt	
gravy granules	

What does soluble mean?

What does insoluble mean?

Classify the materials you tested into the correct category:

Soluble	Insoluble