

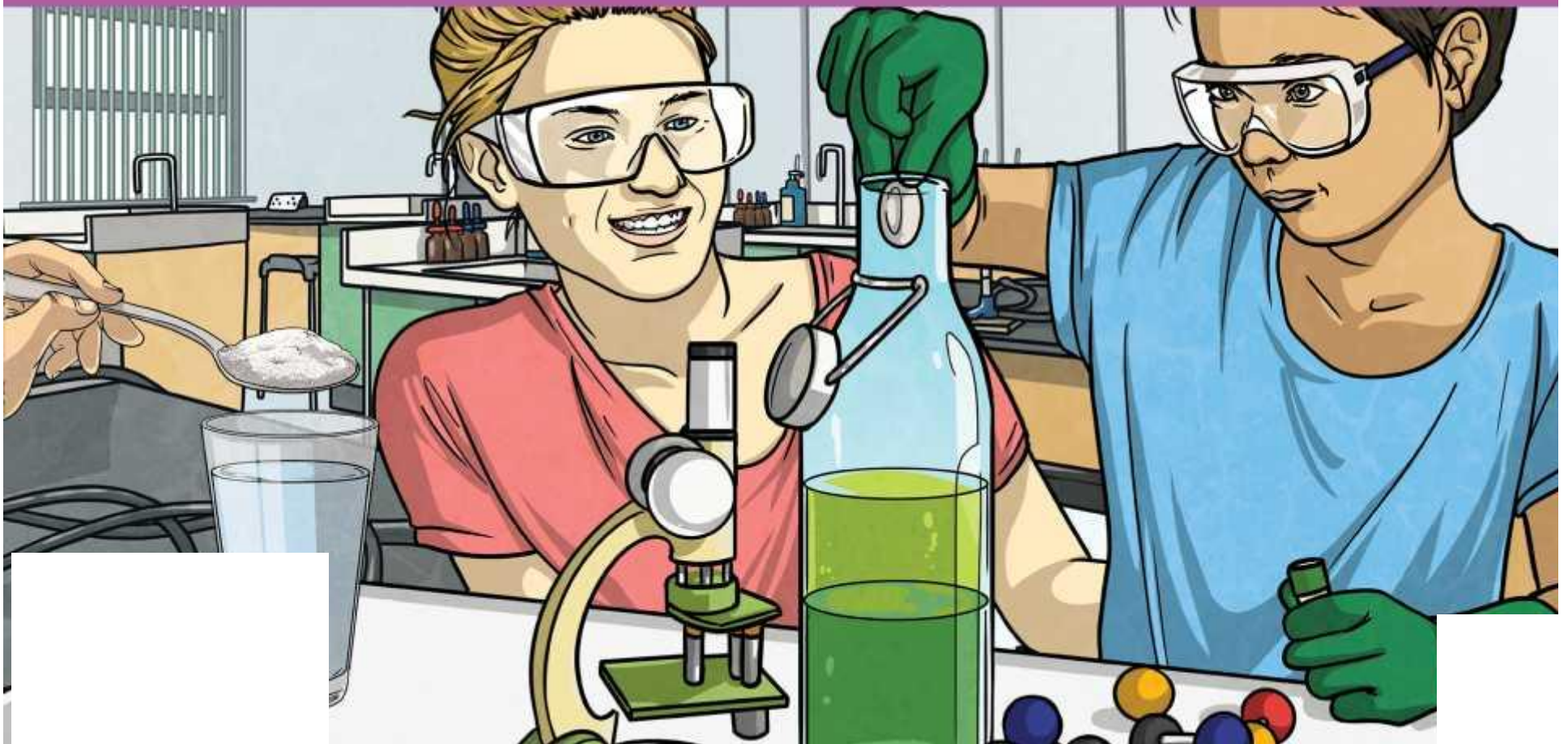
Year 5 Properties and Changes of Materials Science Discussion Starter – Follow-On Activities

- Carry out an investigation to see which other solids dissolve in water.
- Investigate which materials can return to their original state after heating and which can not.
- Use a range of sieves and filters to separate combinations of different materials, such as sand and water or flour and rice.
- Research famous scientists who created new materials, such as Ruth Benerito and Spencer Silver.
- Visit this page for more lovely ideas:
- You might also want to explore light in greater depth and may find the following resource useful:

Properties and Changes of Materials

Discussion Starter

KS2 Year 5 Science



What Happens to Sugar When It Is Added to Hot Water?

The sugar melts into the hot water.

I think the sugar disappears.

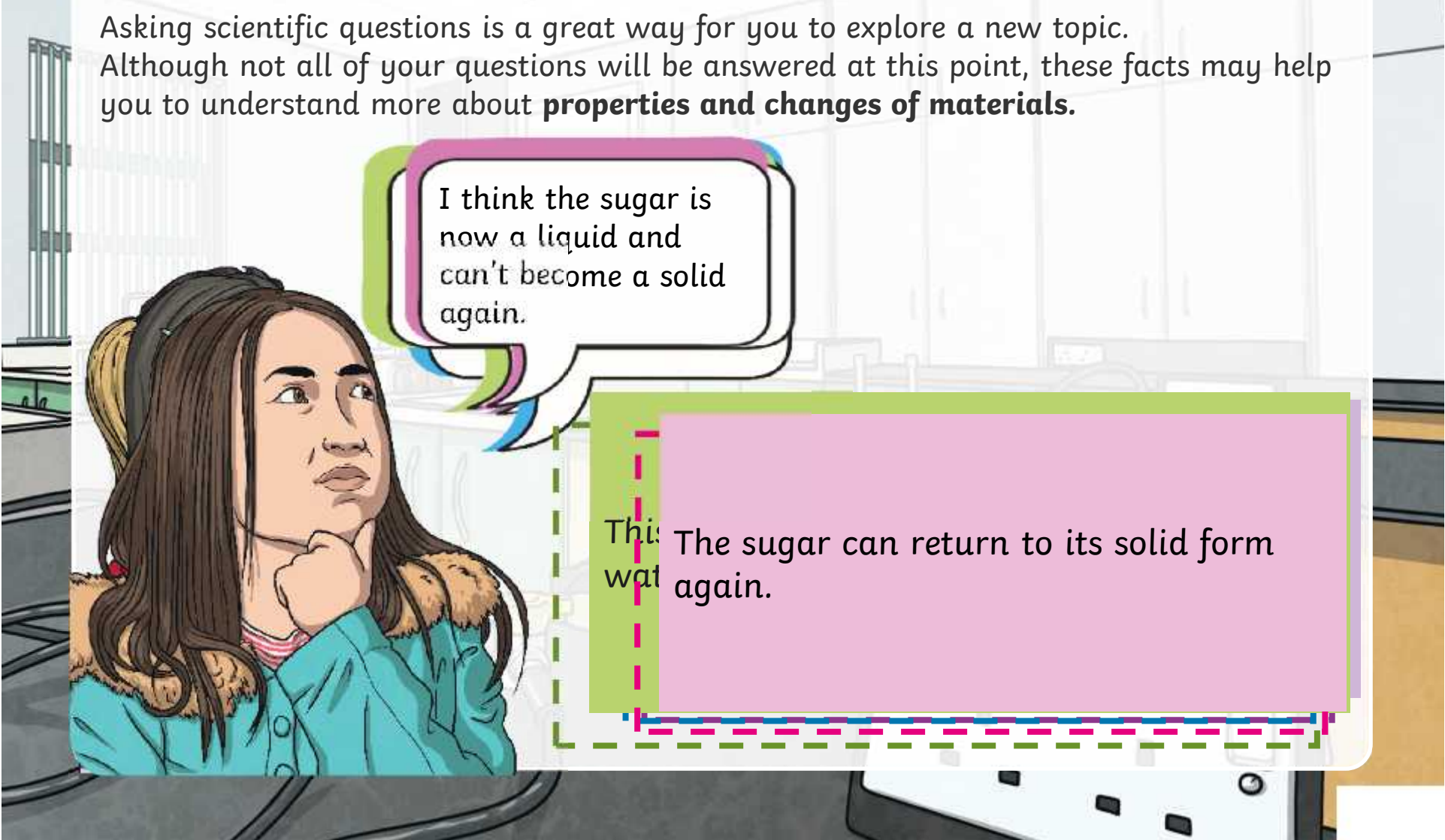
The sugar dissolves in the hot water.

I think the sugar is now a liquid and can't become a solid again.



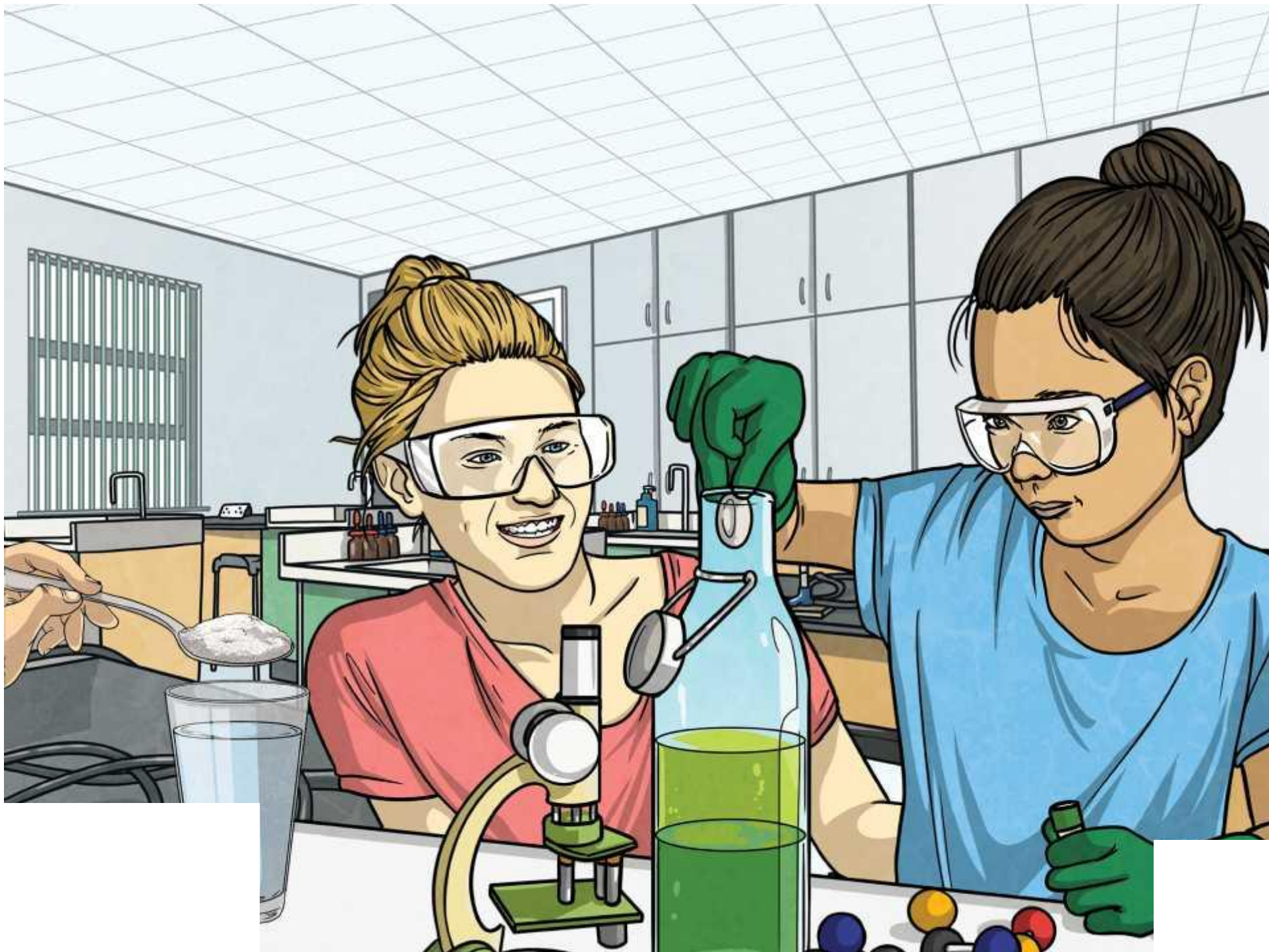
Answers – What Happens to Sugar When It Is Added to Hot Water?

Asking scientific questions is a great way for you to explore a new topic. Although not all of your questions will be answered at this point, these facts may help you to understand more about **properties and changes of materials**.



I think the sugar is now a liquid and can't become a solid again.

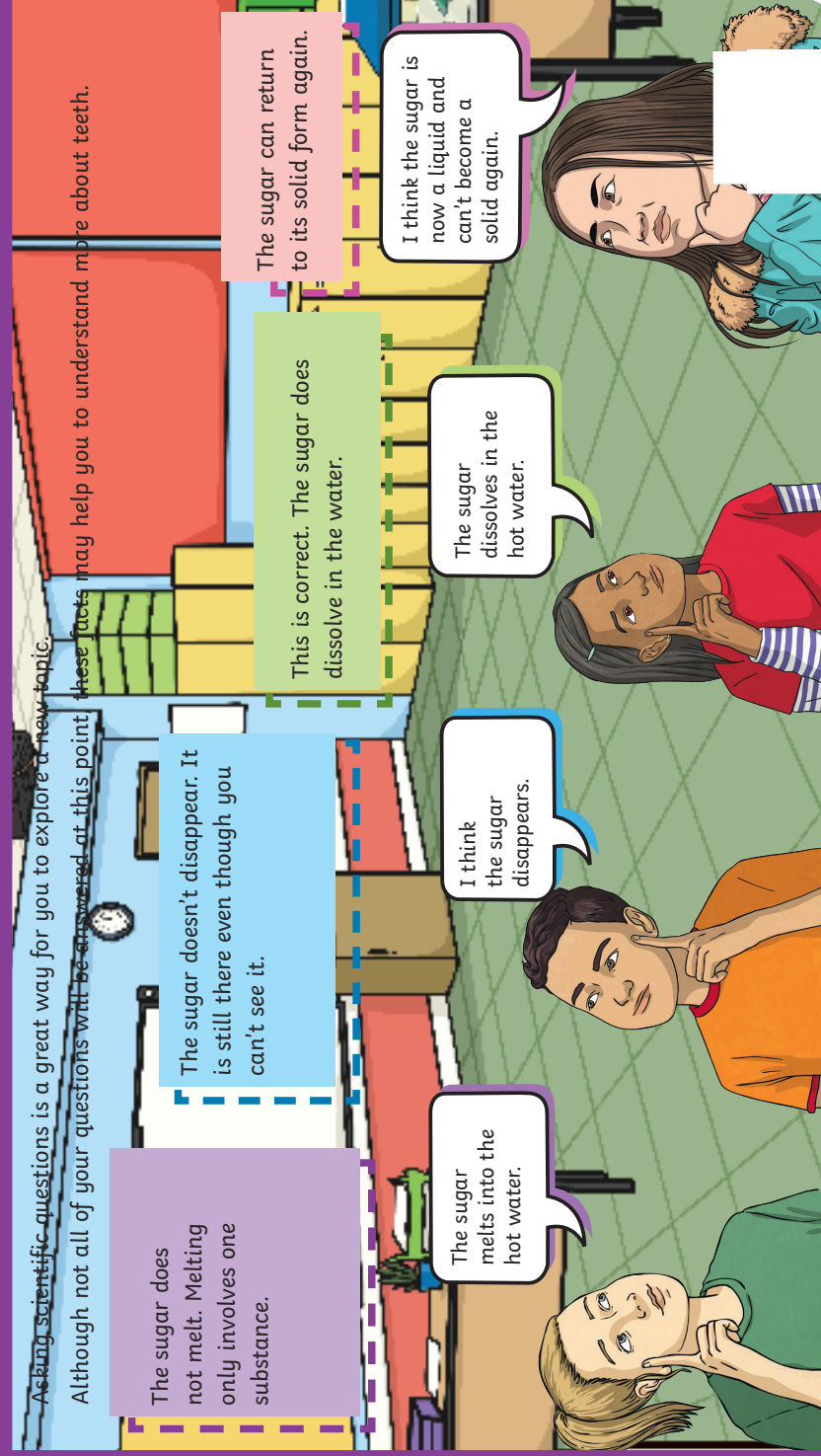
This water can return to its solid form again.



What Happens to Sugar When It Is Added to Hot Water?



Answers – What Happens to Sugar When It Is Added to Hot Water?



What Happens to Sugar When It Is Added to Hot Water?

The sugar melts into the hot water.

I think the sugar disappears.

The sugar dissolves in the hot water.

I think the sugar is now a liquid and can't become a solid again.

Answers – What Happens to Sugar When It Is Added to Hot Water?

Asking scientific questions is a great way for you to explore a new topic.

Although not all of your questions will be answered at this point, these facts may help you to understand more about teeth.

The sugar does not melt. Melting only involves one substance.

The sugar doesn't disappear. It is still there even though you can't see it.

This is correct. The sugar does dissolve in the water.

The sugar can return to its solid form again.

The sugar melts into the hot water.

I think the sugar disappears.

The sugar dissolves in the hot water.

I think the sugar is now a liquid and can't become a solid again.

KS2 Year 5 Properties and Changes of Materials Science

Discussion Starter - Teacher Guidance

This science discussion starter pack is designed to encourage children's scientific thinking. Included are two sizes of the discussion starter, a PowerPoint version and a follow-on sheet, giving you more flexibility in the classroom.

Before showing the discussion points, you could ask the question to your class for them to share initial ideas. The starter page with the children's answers could then be displayed for the whole class to see and discuss as a class. Alternatively, children could work in smaller groups to discuss the points.

Points for children to consider include which children do they agree with and why. They should explain if there are any statements that they disagree with and whether there are some they partially agree with.

It is important that while using this resource, any misconceptions that children have are addressed during the topic.

Common misconceptions may include:

- Melting and dissolving are the same thing.
- When substances dissolve in water, they disappear.
- Solutions cannot be separated.