

How are synthetic materials made from raw materials?

Science

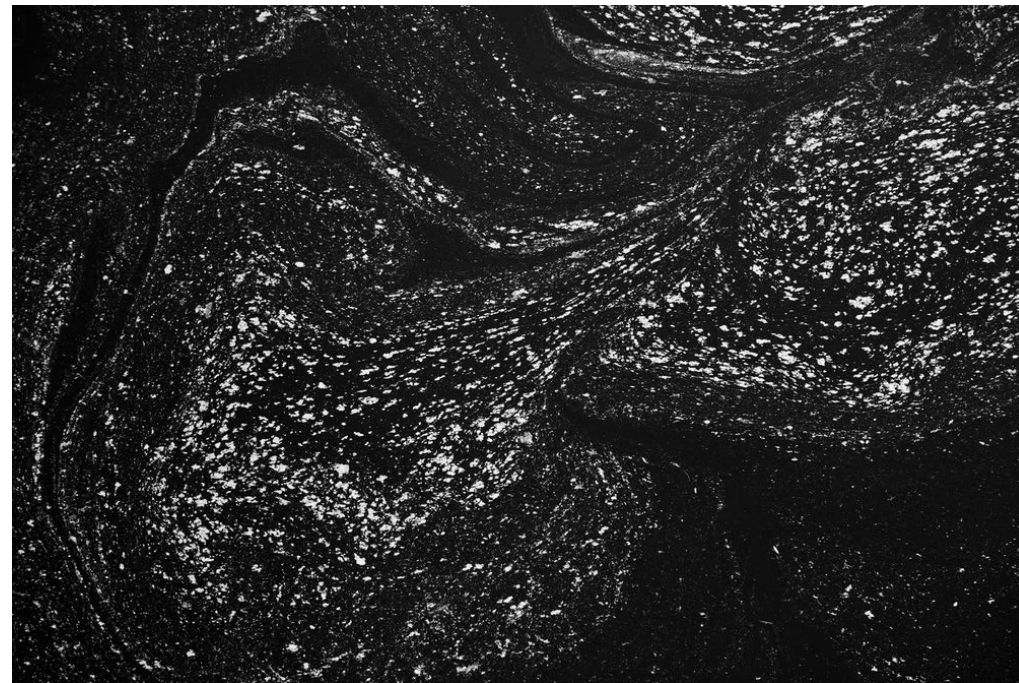
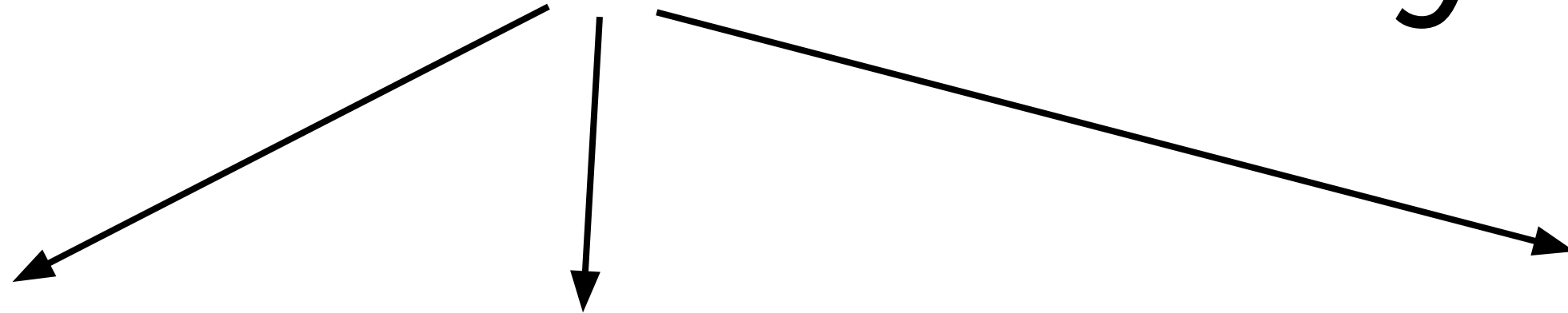
Miss Roberts



Raw

->

Synthetic



SAND

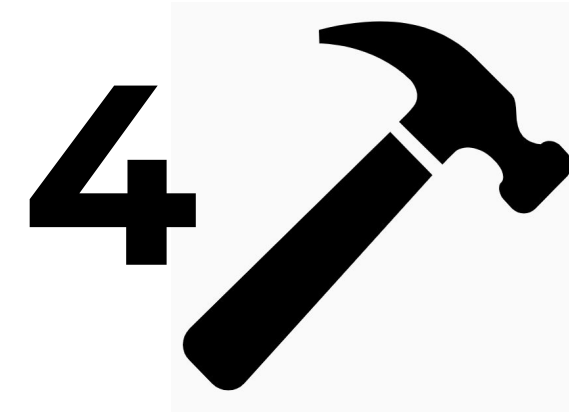
1
+ Other
materials



2 -> 3
HEAT -> LIQUID



GLASS



Changing sand to glass

1. **First**, sand is mixed with _____ .



Changing sand to glass

1. First, sand is mixed with other materials .



SAND

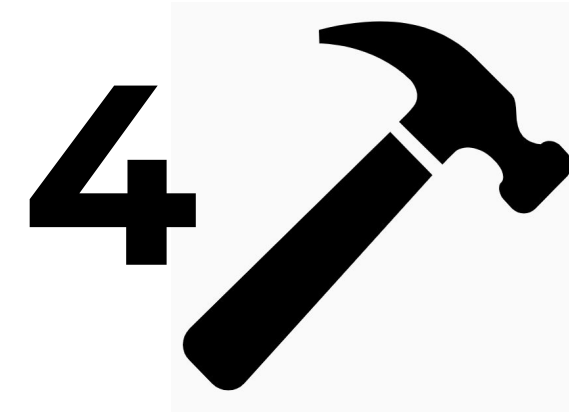
1
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2 -> 3
HEAT -> LIQUID



GLASS



Changing sand to glass

1. First, sand is mixed with other materials.
2. Next, heat is added until the sand reaches a very high temperature.
3. This heat melts the sand into a liquid.
4. This can gradually be knocked into shape as it cools down and becomes a solid.



What is glass used for?	Which properties make it good for this use?
Windows	
Glasses to drink from	
Decorations and jewellery	
Glasses to help people to see better	



Properties

hard	strong	flexible	soft
malleable		shiny	durable
transparent			



What is glass used for?	Which properties make it good for this use?
Windows	Transparent, durable, hard
Glasses to drink from	Durable, hard, strong
Decorations and jewellery	Shiny, transparent, hard, durable
Glasses to help people to see better	Malleable, transparent, strong, hard

