

## @ HOME SCIENCE DISCOVERY MISSIONS – CRYSTAL GROWING (*sugar*)

### What Do We Need?

- Water
- Sugar (the one at home)
- Clear jar (glass preferably)
- Coffee filter
- String of yarn or thin wood stick
- Patience!

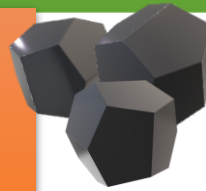
### Protocol

1. Put one cup of water to boil.
2. Stir in the 3 cups of sugar slowly in the hot water until is *saturated*. *TIP: stir one spoon of sugar at a time until the sugar does not dissolve in the water anymore. This means that the water is saturated.*
3. Let the mixture stand and cool.
4. Filter the mixture into the jar using a coffee filter. Discard solid parts (undissolved sugar at the bottom of the boiled water).
5. Insert a yarn string or a thin wood stick in the middle of the jar, hanging from the top. You can use a pencil to secure the yarn or a clip to hold the wood stick in place.
6. Let it rest *undisturbed*. Observe the growth over several days.



### YOUR MISSION REPORT

- Measure your crystal after 7 days – how big is it?
- What other materials found at home could you use to grow crystals? report on your trials!
- How are crystals important in our planet?
- Where do you see science in this mission?



**Did you know?**  
Silicon crystals are used in the tech industry to manufacture chips that power our computers.

Learn more!



Video (and instructions) here:  
<https://tinyurl.com/yd796db5>

Student feedback - How did you like this mission?



not at all



not much



a bit



liked it



liked it a lot



liked it best

Family feedback - How did you like this mission?



not at all



not much



a bit



liked it



liked it a lot



liked it best

Did you use the 'Learn more!' resources?

Yes

No

What was good/bad about this mission?