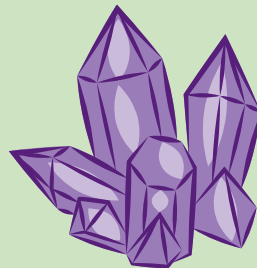




# Crystallisation



**A crystal** is a solid material where the atoms or molecules are arranged in a **well-defined** order. **Crystallisation** is the **formation** of a crystal, usually starting from a liquid. Crystallisation begins with **nucleation** - the formation of the smallest building block that looks like the **final crystal** structure. Nucleation is very important since it determines the **size, shape** and **properties** of a crystal. A crystal's properties can be **tuned** by substituting its atoms/molecules with different ones.



**Polymorphs** are crystals that are made up of the **same molecules** but are arranged into **different structures**.



For more information and activities  
you can try at home, go to:  
**[YeungGroupBham.com/outreach/](http://YeungGroupBham.com/outreach/)** or  
scan this QR code!



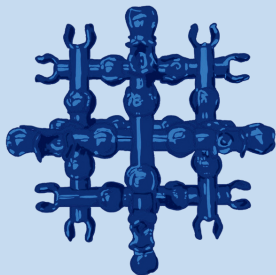


# The Nucleation Game

1

## Pick your pieces

Pick certain colours or  
grab a handful of  
different types of pieces



2

## Assemble them

Make sure your crystal has  
a regular & repetitive  
structure



3

## Beat the clock

Finish your crystal  
before the timer runs  
out!

