

Year 6 Perfect Polymers - Chemistry in Action

TEACHER REFERENCE GUIDE

As a Street Science junior scientist, you used **fair testing** to observe how changing a **variable** can affect results, and how changes to materials can be either **reversible** or **irreversible**.

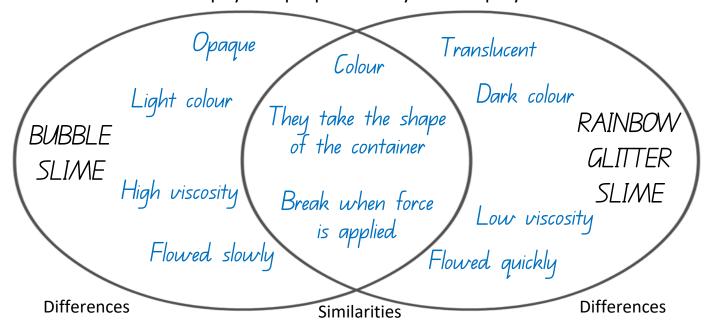
1. In your first experiment, you ran a **fair test** to find out how changing one **variable** affected the physical properties of your slime. In the table below, identify which materials were kept constant and which were variable.

Materials: PVA solution Cornflour Activating agent Glitter

CONSTANT (kept the same)	VARIABLE (changed)
 PVA solution 	 Glitter
 Activating agent 	 Cornflour

2. We used **adjectives** to describe properties of the slime.

Add adjectives to the Venn diagram below to summarise **differences and similarities** in the physical properties of your two polymers.





3. In science, we say some changes are easily **reversible** while others are **irreversible**. Use a dictionary (or the internet) to find the definitions of these words:

Reversible –	e.g. Capable of being reversed so the previous state is
	restored.
	e.g. Capable of going through a series of actions (or
	changes) either backward or forward.
Irreversible -	e.g. Not reversible; not able to be undone or altered.
	e.g. Impossible to change back to a previous condition or
	state.
The slime exp	versible or irreversible and explain why. eriment was an irreversible change because naterials were mixed together they changed into a new
	and couldn't be separated again.
The snow exp	periment was a reversible change because
the water of	an evaporate from the snow leaving the dry powder. This
dry powder	r can then be made back into snow by adding water.