

Building Science Concepts series was *Sand, Salt and Jelly Crystals* Book 16

### YouTube **Melting**

1. Why Does Chocolate Melt? <http://www.youtube.com/watch?v=98S8gxqQbhA>

This clip is definitely only for 5 year olds as the cartoon girl asking the questions is rather babyish. The clip is worth showing to 5 year olds because is a simple but wide ranging explanation as it mentions melting plastic, water and candles. The chocolate explanation fits in with the lesson I planned where we melt chocolate in the classroom and then re solidify it.

2. Three States of Matter <http://www.youtube.com/watch?v=0rL-DxQwiVI>

This clip is for teachers, and shows them how to do an ‘ice melting competition’ in the classroom. This is an easy fun way to teach melting to 5-6 year olds.

### YouTube **Dissolving**

1. Primary Science Demonstrations: Different Dissolving

<http://www.youtube.com/watch?v=J7UJa4t1e5Q>

This clip is a demonstration for teachers. It shows an intriguing dissolving experiment – dissolving a polystyrene cup in acetone (nail polish remover). This experiment would be more suitable for older children (8 and older) as it’s too complex for younger children. I’m not sure if I would feel comfortable using those materials in a primary school as they are dangerous.

### YouTube **Mixing**

1. One Pot Chocolate Chippies

<http://www.youtube.com/watch?v=CpOKplpnPPU&list=PL974C88829E882B85>

I am wary about using unhealthy food in classroom lessons; however this one pot chocolate chippie recipe is a really good way to illustrate mixing. Also, it is high interest for the students, and includes some measuring and prediction skills. It is not too unhealthy, as each child gets just one cookie at the end. It is suitable for all primary students from 5-12 year olds.

Building Science Concepts (BSC): Sand, Salt, and Jelly Crystals *Mixing and Melting Materials*.

I believe that my ‘Building Science Concepts’ book is still relevant today as melting and mixing materials is seen on a daily basis for the average person. “Most children have experience with ice cream melting on a hot day or ice cubes melting in a glass” (BrainPOP, 1999). Also sand, salt and jelly crystals are all ingredients that most children have had some experience with. Children may be able to notice the change throughout a melting or mixing process but may not understand why it is happening.

Through this book we are able to build on their existing knowledge and broaden their understanding on the science behind what is happening. Some children may not realize some of these changes are permanent (irreversible) and some are also temporary (reversible). I found an interactive game online for children that show these permanent and temporary

changes (Barrow, n.d). Some of these activities on the game were very similar to some of the activities in the 'Building Science Concepts' book I am using for this essay.

Barrow, M. (No date). Science Zone. *Interactive Science Games*. Retrieved from [http://www.bbc.co.uk/schools/scienceclips/ages/10\\_11/rev\\_irrev\\_changes\\_fs.shtml](http://www.bbc.co.uk/schools/scienceclips/ages/10_11/rev_irrev_changes_fs.shtml)

BrainPOP. (1999-2013). *Change in Matter*. Retrieved from [v=\\_pxd56nzPI0http://www.brainpopjr.com/science/matter/changingstatesofmatter/grownups.weml](http://www.brainpopjr.com/science/matter/changingstatesofmatter/grownups.weml)