

TOPICS	Paper Making		KEY STAGE	2	Date	08/10
LINKS	NATIONAL CUR.	ART AND DESIGN 2B, 2C & 3B; DESIGN AND TECHNOLOGY 2C, 4A; SCIENCE 1A				
	QCA	UNIT 1B AND 2B; SCIENCE: UNIT 3C				Page 1 of 2

Learning objectives	Structure	Plenary
<ul style="list-style-type: none"> To understand how paper is made using plant material. To discover the different types of paper available. To make paper from recycled paper. <p>Assessment questions</p> <ul style="list-style-type: none"> What is paper made from? What holds paper together? What plants can be used for making paper? How is paper made? 	<p>Introduction</p> <p><i>What is paper?</i></p> <p>Discuss what we use paper for, how it is used in our every day lives and how important this material is. Even though Egyptians made paper by pounding papyrus this is technically not paper which is made from pulp. The invention of paper is given to the Chinese in the 2nd century. They not only used it for writing but also packaging / wrapping and cleaning (e.g. toilet paper!).</p> <p><i>What is paper made from?</i></p> <p>Introduce plants which are used to make paper. Handout different examples of paper made from different plants e.g. papyrus, cotton, coffee, banana. Can also introduce paper made from dung where plants have undergone pulping through the digestive tract of e.g. sheep or elephant. Show class hand made paper which has been decorated with plant pieces and explain we are going to make paper and decorate it with plant pieces from Rosemoor making 'Rosemoor paper'. Show example of what they will produce.</p> <p>Activity 1 - Collecting plants to decorate paper</p> <p>Take class into garden to collect a peals and small leaves to decorate their paper. Remember to emphasise pieces need to be small and thin, using hard thick pieces will not bind with the paper. They can create patterns or even make a picture on their paper.</p> <p>Remind class not to run and not to pick growing plants.</p>	<p>Go over terms used and look at some of the paper and decorations created.</p> <p>Resources:</p> <ul style="list-style-type: none"> Different types of paper Mould and Deckle Jugs Bowls Couching cloth / mat (J-Cloths) Newspaper Hardboard (A4 size) for squeezing Liquidizer (to pulp waste paper) Paper pulp from waste paper (newspaper or office paper) prepared before hand Bucket to store pulp in

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	<p>Activity 2 - Paper making Demo</p> <p>How is paper made? Discuss what needs to be done to plant material (e.g. wood) to allow paper to be made. By making pulp this frees up the plant fibres, very small thin bits of plant. The plant fibres are drained to produce a mat of randomly interwoven fibres. Water is removed by squeezing and drying to make a sheet of paper.</p> <p>This is essentially how all paper is made and what we are going to do today. Demonstrate papermaking using pulped recycled paper, Mould and Deckle, couching cloth and squeezing. Paper decoration to take place between laying paper on couching cloth and squeezing.</p> <p>Activity 3 - Paper making</p> <p>Divide into groups of 2-3, each person to make own paper with support of others. Each person should be able to make and decorate 2 pieces of paper. Once complete pile groups paper and squeeze between newspaper and boards. Place each paper onto a piece of newspaper to take back to school and dry.</p> <p>Problems that occur:</p> <p>pulp not diluted enough so end up with paper that is too thick which creates difficulty draining and squeezing.</p> <p>Deckle held upside down so can't remove paper</p> <div> <p>Key vocabulary:</p> <p>Paper, Pulping, Plant fibres, Deckle, Mould, Couching cloth, Recycling, Papyrus.</p> </div>	