

Paper-making (Key stage 1)



Season: All Year	Duration: 1-1.5 hours	
<p>Overview: Experience recycling in action! We bring everything needed for your class to discover how the paper they put in the recycling box is recycled on an industrial scale. We then get stuck into making our own beautiful recycled paper. In longer sessions we also have fun making fun hand-print bugs from old cardboard boxes, tubes and tissue paper scraps.</p>		
<p>Learning Objectives:</p> <ul style="list-style-type: none"> To identify the wide variety of products made from, and uses of, paper in our daily lives To understand the importance of recycling paper. To understand the difference between recycled and non-recycled paper. To identify where to put waste paper for recycling at home and at school. To identify the processes involved in making recycled paper. 	<p>Key Vocabulary:</p> <p>Rubbish Waste Recycle Landfill Busy</p>	<p>Sieve Paper Pulp Paper Mill Newspaper</p>
<p>National Curriculum Links: Science: Year 1: Everyday Materials Year 2: Uses of Everyday Materials</p> <p>Design and Technology: Key Stage 1: Design; Make.</p> <p>Art and Design: Key Stage 1: To use a range of materials creatively to design and make products; To develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space.</p>		
<p>Resources to be provided by school: Interactive Whiteboard or projector and screen, drying rack, sink, newspaper (to put finished paper on when drying and to cover tables), scissors, pencils, PVA glue and glue spreaders.</p> <p>Materials Children should bring from home: cereal boxes (one between two children is sufficient), small cardboard tubes (one per child e.g. toilet roll/kitchen roll or similar).</p>		
<p>Outline of activities with approximate timings: Please note: We can tailor activities to suit the abilities of your class and time available.</p> <p>Introduction (15 minutes): Using a short power-point presentation and props we identify:</p> <ul style="list-style-type: none"> What happens when rubbish is recycled (focus on paper) and why is this better than landfill? Why is it better to use recycled paper products instead of paper that has not been recycled? Which common items are made from recycled paper? <p>Making recycled paper (30 minutes-1 hour) : The format of this activity will depend on the duration of the workshop, as follows:</p> <p>For shorter workshops/ smaller groups: Demonstrate paper-making process to the whole class. Then divide class into small 'paper-mill' groups. Each group will have a set of paper-making equipment (bowl of pre-made paper pulp, piece of plastic mesh, J-cloths, sponges and newspaper etc.), enabling the whole class to be involved in paper making at once.</p>		

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Outline of Activities (continued):

For longer workshops/ larger groups: Session time is divided between making paper and making handprint bugs: Education officer demonstrates hand-print bug craft to whole class and then works with a group of 8-10 children at a time to make paper while the rest of the class make their bugs, until all children have made both crafts.

Additional activities (time allowing):

- Envelope making: Make a scrap paper (or magazine) envelope to go with your paper.
- Tell the paper story: Can you put the paper-making pictures in the right order and re-tell the story of recycling paper?

Eco- Schools Links:

Curriculum-linked activities and practical action on paper use, waste and recycling in school could be used as evidence towards an Eco Schools Award. For more information visit:

<http://www.keepbritaintidy.org/ecoschools/>

Suggested follow-up activities:

- Use your hand-made paper to make an extra-special greetings card, fridge magnet and/or other seasonal decorations.
- Investigate how paper is used at your school: How much paper is used every day/ week/ term? What is it used for? How could your school use less paper? Is the paper used for printing/ photocopying/ art/ displays/ exercise books recycled paper? What happens to waste paper? Are there recycling boxes and scrap paper trays in each classroom? If not, think about getting these so that both sides of paper are used before it is recycled.
- ICT link: research the process of making paper from trees- how is it different from making recycled paper? Why is it better for our environment if we use products made from recycled paper rather than trees?

Useful websites:

Paper recycling:

http://www.recyclenow.com/how_is_it_recycled/paper.html: cartoon showing the paper-making process.

http://www.paper.org.uk/information/pages/school_resources.html: Information about paper from the confederation of paper industries.

<http://www.aylesford-newsprint.co.uk/Students.asp>: Information about the producer of recycled newsprint who recycles Somerset's household waste paper.

General waste and recycling:

Local waste and recycling information, top tips and facts: <http://www.somersetwaste.gov.uk>

<http://www.recyclenow.com/schools/index.html>: lots of general recycling information, plus top tips and resources for schools.

<http://www.wastebuster.co.uk/> : Join Busta and Pong on their waste busting mission! This interactive website is full of fun children's activities, plus ideas and resources for teachers.

http://www.reducereuserecycle.co.uk/greendirectory/kids_green_sites.php : directory of fun, environmental- themed websites for children.