

# Paper Making

## Teachers Guide

### **KESAB Litter, Waste and Recycling Education**

*KESAB is a non-profit community organisation which works with people to restore, preserve and improve the total environment. KESAB offers interactive programs to schools and the wider community, presenting programs relating to KESAB's objectives, national curriculum and community interest.*

### Overview

Through participation in a KESAB Papermaking workshop, students will gain skills and knowledge in the:

- process of making hand-made paper (recycling)
- properties and uses of different paper and cardboard products
- importance of paper recycling and waste reduction



### Key Understandings

- Paper is made from an organic material
- The technique of papermaking has been known to people for centuries
- People can make choices to reduce paper litter and minimise its waste
- We need to conserve natural resources and reduce the amount of waste going to landfill
- Different paper products are specifically selected to be used for different purposes and most can be recycled easily

### Key Words

paper	trees	wood	water	pulp
litter	waste	reuse	reduce	recycle
forestry	natural resources	cardboard	newspaper	liquid paperboard
sustainable	environment	landfill	resource recovery	rubbish

### KESAB Papermaking Kit Hire

KESAB have a simple classroom papermaking kit available for hire.

Equipment:

- 5 deckle sets, lino borders, foam beds, chamois, lino pieces and rollers
- bucket
- wood press and clamps
- cotton sheets
- Papermaking instruction brochure
- KESAB Papermaking DVD
- 'Recycling Challenge' Video

Hire Period: 2 weeks

Hire Cost: \$103.00 - \$33.00 materials/equipment (incl GST) + \$70.00 cash deposit - refunded on return

### KESAB Papermaking Workshops

Given the amount of time needed for us to set up and pack up, school workshops are only available as whole day bookings. So invite others to join in! Workshops are generally 1 hour so we can run 4 or 5 sessions per day. Extra helpers are needed for Junior Primary groups.

**School Workshops (whole day) \$220 + GST**

# Papermaking ideas to get you started

- Use the papermaking kit to make cards and envelopes to give as gifts (fantastic for Christmas cards)
- Experiment with marbling and natural dyes
- Research the history of paper and papermaking. What did people use to communicate before paper was invented? Why was paper invented? Develop a papermaking timeline.
- Investigate how paper is made and recycled
- As a class look at the positive and negative aspects of paper
- In small groups students could investigate and analyse local newspapers (The Advertiser and The Messenger) what are the main features and formats of each. Students can then produce their own newspaper and write articles and advertisements for their newspaper.
- Investigate the characteristics of different types of paper, why are some shiny? Some thin? Some coloured? Are they used for different purposes
- Use paper to make paper art e.g. origami
- Students can document the processes involved in making paper, make videos or posters to explain to other students how to make paper.
- Team up with another class in the school. Students can teach other year levels how to make paper.
- Keep a class list and record how we use paper in everyday life.
- Have a class discussion or write creative stories discussing "if the world did not have paper what would happen?"
- Make a paper products display in the classroom, library or front office. Try and find as many paper products as possible.



# How to make pulp

*Pulp is 90% water and 10% paper  
20 sheets of used paper makes about 17 new*

1. You will need shredded or torn paper to make pulp, office paper is preferable as it is good quality paper and will improve your end result (newspaper is not recommended). Soak paper in a bucket of water overnight.
2. Place a small handful of shredded paper into a blender, fill with water and blend for about 30 seconds. (your mixture should still be fairly watery) you will need to make about a bucket full of pulp.
3. Add 2 buckets of water to a tub with about a litre of pulp mixture.
4. The mixture in each tub should be mainly water, (water colour should now be milky when mixed up)

## Paper making

### **Infostuff -- Paper making**

<http://www.infostuff.com/kids/paper.htm>

### **Wood Magic at Virginia Tech -- Making your own paper**

<http://www.woodmagic.vt.edu/Kids/Activities/paper/>

### **Learn to make home made paper**

<http://www.tutorials.com/06/0697/0697.asp>