

LEE S. McDONALD, INC. est. 1976
THE SOURCE FOR THE PAPER ARTS

PAPERMAKING WORKSHOP or CLASS

Per ten papermakers:

At least - **5** moulds & deckles
 4 vats - less if teaching children
 20 felts - the more the better
 10 pounds cotton linters
 5 pounds abaca sheet pulp

PULP One to two pounds of pulp per person is a good amount for a weekend workshop. One pound of dry pulp will make approximately 25 - 50 5 1/2" x 8 1/2" sheets, or 10 - 25 sheets of 12" x 18".

If you are re-hydrating your pulp with a whiz mixer or blender, and you are experimenting with sheet formation and / or paper casting, we recommend:

Cotton linters - 2nd cut - preferably 282RS or 225HL

Abaca sheet pulp - wonderful long fibers - a little bit adds a lot of strength and character.

For **Pulp Painting** - Overbeaten Cotton or Abaca is the best choice.

Gampi, Kozo & Mitsumata - Oriental fibers require mainly patience, time, and a beat stick.

Ready - to - Use Pulp - If you do not have re-hydrating equipment or a beater, or you need a larger quantity than your equipment can conveniently provide, we offer 5 gallon pails of Ready-to-Use Pulp. Each pail contains just under 2 pounds of dry pulp. Pulp is beaten to your specifications; we can any add sizing or methyl cellulose as requested.

MOULDS A good quality Mould & Deckle is always the best investment - we recommend the teacher have at least one for demonstration.

Depending on the length of the class or workshop, the students can either make their own moulds and deckles, or we offer good quality, affordable moulds & deckles, perfect for the beginning or intermediate student papermaker.

Papermaking Kits:

- Cooper Moulds or Cooper Kits
- Student Moulds or Student Kits
- Basic Moulds or Basic Kits

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To *make your own moulds & deckles*, we offer all the supplies you need:

- Blue-weave, heat-shrinking screen
- Epoxy paste
- Stainless steel staples
- We also sell our Cooper Mould & Deckle bars for you to sand and assemble

EQUIPMENT You can begin with just a sink, some felts and a rolling pin; however, our **Papermaking Kits** contain almost everything you need:

Mould & deckle
Felts for couching
Sheet pulp - cotton and Abaca
Additives
Instructions

Vats - Also, you will probably need vats - we offer many sizes for your varied papermaking needs. Select one large enough to easily maneuver your mould and deckle - with about 5"-6" of space on each side over the space of the mould.

Felts - our 17L is the easiest, best for beginners - available cut to size, or for the best value - cut your own from our 78" x 80" piece. The more the better - cut them a bit larger than the paper size you are making.

•A **press** is a great help - we have a small, portable 12" x 18" Stack Drier that is very economical at under \$100 dollars, and easy to use with a fan or blower. Our 12 Ton and 20 Ton Presses yield professional papers, but are not very portable and are quite an investment - worth every penny for the frequent or serious papermaker!

PIGMENTS & CHEMICALS You will need to experiment to find techniques that work best for you. The following are suggested:

Pigments - Our Aqueous Dispersed Pigment Sample Kit is a great way to get started - 11 aqueous dispersed colors produce rich, vibrant colors. Also try our pearlescent pigments for wonderful effects. We do not recommend the use of pigments in Children's workshops - try food grade dyes instead. If using our pigments, don't forget to get Retention Aid.

Retention Aid - locks the pigments, dyes, fillers and other additives into the fiber. **4oz. will make enough stock solution for several pounds of pulp; use 1 1/2oz. to 4 1/2oz. stock solution per pound of dry pulp**

Methyl Cellulose - used as an adhesive, and sizing - adds strength. Use for papier mache, paper sculptures - great projects for kids. Totally non-toxic, a food grade additive, safe if digested - safe for use with children. **1oz. will make 1 to 1 1/2 cups of stock solution; less than a cup of solution is needed per pound of fiber.**

Liquid Sizing - added internally to make the finished paper less absorbent - use if you plan on writing or painting the paper. Used externally to add extra strength. **8 tsp. per pound of dry fiber.**

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Formation Aid - suspends and separates the fibers for making very thin sheets. **1/2 to 1 tsp. per quart of water; 1 gallon of solution per 15 gallon vat of water.** Also great to use in pulp spraying.

Soda Ash - for cooking oriental fibers and preparing them for beating - **1/2 to 3/4oz. per 3 1/2 oz of fiber.**

**Chemicals and Children do not mix - please exercise caution! We provide chemical instruction sheets with purchased chemicals. Please ask for the related MSDS (Manufacturer's Safety Data Sheet).*

FUN ADDITIVES:

Recycled Paper - try all sorts of different papers:- wrapping paper, comics, magazines, brown bags, tissue paper and egg cartons. Tear into small pieces and soak before blending.

Coloring the pulp - recycled colored paper will add color to the pulp.

Natural and not so natural: - flowers, ferns, threads and metallic glitter - anything you can think of. Fresh plant material will retain more color if the sheet is air dried, not pressed.

Additional equipment and accessories you should have:

- Buckets and plastic trash barrel to soak and mix the pulp.
- Pressing boards or platens - larger than the paper size you are making
- Drying rack, clothes line, or flat surface to dry the sheets.

BOOKS These are our favorite books for the beginner and advanced papermaker alike:

The Art and Craft of Papermaking, Sophie Dawson

The Art of Papermaking, Bernard Toale

The Papermaker's Companion, Helen Hiebert *Recommended overall books*

Teaching Papermaking in the Classroom, Gloria Zmolek

Making Books That Fly, Fold, Wrap, Hide, Pop Up, Twist, and Turn, Gwen Diehn *Great projects using paper for kids of all ages*

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