

Support Document

Pre-class prep

Materials Prep

Paper Making

Pre-class prep

For a class of 30 students,
prepare 6 paper making kits

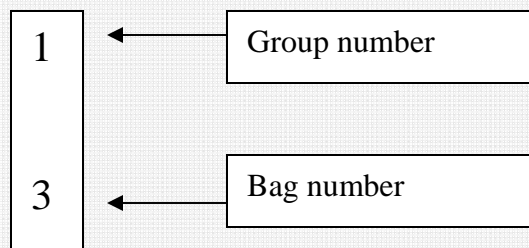
Preparing the materials

Materials Needed

2	Newspapers
6	2-quart buckets
30	6in X 6in drywall patches
30	Sponges
6	Hand-held strainers
6	Potato mashers
1	Roll waxed paper
30	Markers
60	Zip-Lock bags
1	Pair scissors
6	Reusable grocery bags

Zip-Lock bag prep

1. Place a sponge in each bag.
2. Place a drywall patch in each bag.
3. Place a sharpie in each bag.
4. Label the outside of each bag with the contents.
5. Divide the bags into groups of 5 (there should be 6 groups).
6. In the upper right hand corner of each Zip-Lock bag, write the group number. (There should be five 1s, five 2s, five 3s, etc.)
7. Within each group, label the bags 1 through 5. Write the number just below the group number.



Waxed paper prep

8. From the roll of waxed paper, cut 30 squares approximately 6" X 6".
9. Place the waxed paper into Zip-Lock bags.

Paper grocery bag prep

10. Label the bags 1 through 7 with a marker.
11. Place the group 1 Zip-Lock bags into paper bag 1. Place the group 2 Zip-Lock bags into paper bag 2. Repeat this pattern with all six paper grocery bags.
12. Place 5 2-quart buckets in each paper bag.
13. Place 1 potato masher in each paper bag.
14. Place 1 handheld strainer in each paper bag.
15. Place 5 sheets of newspaper in each paper bag.
16. Place 5 Zip-Lock bags containing waxed paper in the paper bag.

Pre-class prep

Preparing the materials

Materials Needed

2	Newspapers
1	5-gallon bucket
1	Cross-cut shredder
1	Potato masher
1	Hand-held strainer
6	Plastic storage containers

The Day Before:

1. Using the cross-cut shredder, shred the newspaper (take out all of the inserts)
2. Put the shredded newspaper in the 5-gallon bucket.
3. Fill the bucket with water.
4. Let the paper soak overnight.

The day of:

5. Using the strainer, transfer the soaked paper into the 6 plastic storage containers.
6. Transfer some water into the 6 plastic storage containers.
7. Using the potato masher, create pulp from the newspaper.
(it may be easier to mash with your hands)
8. Place the lid on the storage container.

Discussion

We created pulp by mashing up old newspaper. If you looked closely at the water after the paper had been mashed, you would have noticed small fibers.

The paper turned out to be a gray color for 2 reasons:

1. Newspaper fiber is not bleached, so it has color to begin with
2. Newspaper has ink applied to it during printing.

As the paper was mashed, some of the ink came off of the paper.

We could have made the paper white by bleaching the pulp with hydrogen peroxide or with chlorine bleach.