

Name: _____

Group: ____

Making recycled paper



With this series of activities, we're going to make and test recycled paper.

Activity 1: types of paper (basic teams) (15')

In teams, identify 8 different types of paper and how they are used.

	Type of paper	Uses
1		
2		
3		
4		
5		
6		
7		
8		

Activity 2: pooling of paper types (plenary) (10')

Write down all the types of paper found by the teams below:

	Type of paper	Uses
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

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Credit: Mr. Robin St-Pierre



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Activity 3: required features (basic teams) (15')

Each team chooses a type of paper and looks for the necessary features (minimum of 4) that this type of paper must have.

Type of paper chosen: _____

Features:

1. _____

2. _____

3. _____

4. _____

5. _____

Activity 4: types of paper and features (plenary) (20')

	Team 1	Team 2	Team 3	Team 4	Team 5	Team 6
Type of paper						
Features	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •

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Activity 5: measurable features (plenary) (15')

In a quick plenary meeting, identify 5 or 6 measurable features from the table in activity 4.

Feature #1: _____ Feature #2: _____

Feature #3: _____ Feature #4: _____

Feature #5: _____ Feature #6: _____

Activity 6: experimentation protocol (expert groups) (50')

Each basic team member chooses a measurable feature from activity 5.

All students who chose the same feature form a new group. They now make up the expert team for this feature.

Each group of experts comes up with an experimentation protocol for testing the recycled paper that each team will make.

Activity 7: making paper (basic teams) (50')

Each basic team chooses a different type of paper as an ingredient for its recipe. All other ingredients must be strictly and entirely the same. That way, the only element that changes is the type of paper that is recycled. We'll be able to tell what influence this paper has on the finished product.

	Team 1	Team 2	Team 3	Team 4	Team 5	Team 6
Type of paper						

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Name: _____

Group: ____

Experimentation protocol

Feature to be measured: _____

Necessary material:

Handling:

Results chart:

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Activity 8: protocol testing (expert groups) (50')

While making the recycled paper, make sure to save some paper samples for testing protocols from activity 6.

Activity 9: protocol improvement (expert groups) (20')

Go back on the protocols:

What worked well	What needs to be improved

Modify protocols for greater certainty.

Activity 10: recycled paper testing (expert groups) (70')

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Take samples of each type of paper made and measure their features using the protocols.

Write down the results in the following chart:

		Team 1	Team 2	Team 3	Team 4	Team 5	Team 6
Type of paper							
Feature							
Possible use for this paper							

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Activity 11: possible paper use (basic teams) (20')

Each basic team suggests a possible use for each recycled paper recipe. Fill out the last line of the chart in activity 10.

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