

CLASS 4 · EVS · CHAPTER 8

How Things are Made

LEARN the ideas step by step, then CHECK with every question and activity from the textbook chapter

14

Learn slides

11

Exercise questions

5Make, colour, observe,
discuss, reflect

Ready-to-teach smartboard lessons, one click at a time.

How this deck runs

1

Learn

Click to reveal each idea.
Pause and ask the question in the notes before you click.

2

Try it

Quick sorts and "which type?" slides: let the class call out answers before each click.

3

Check

Every textbook question and activity. Students answer first, then click to reveal.

4

Discuss

Notes give a discussion question, a common mistake and words to listen for.

Let children explain their thinking in their own words.

LEARN

How Things are Made

Paper from trees · recycled paper · natural colours · types of paper · the 5Rs

Pihu asks about paper

On a Sunday Pihu is painting while her mother reads the newspaper.

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Pihu asks about paper

On a Sunday Pihu is painting while her mother reads the newspaper.

1

A picture

Pihu sees a picture of trees on the front page of the paper

Pihu asks about paper

On a Sunday Pihu is painting while her mother reads the newspaper.

1

A picture

Pihu sees a picture of trees on the front page of the paper



2

The message

It says that recycling paper can save trees

Pihu asks about paper

On a Sunday Pihu is painting while her mother reads the newspaper.

1

A picture

Pihu sees a picture of trees on the front page of the paper

2

The message

It says that recycling paper can save trees

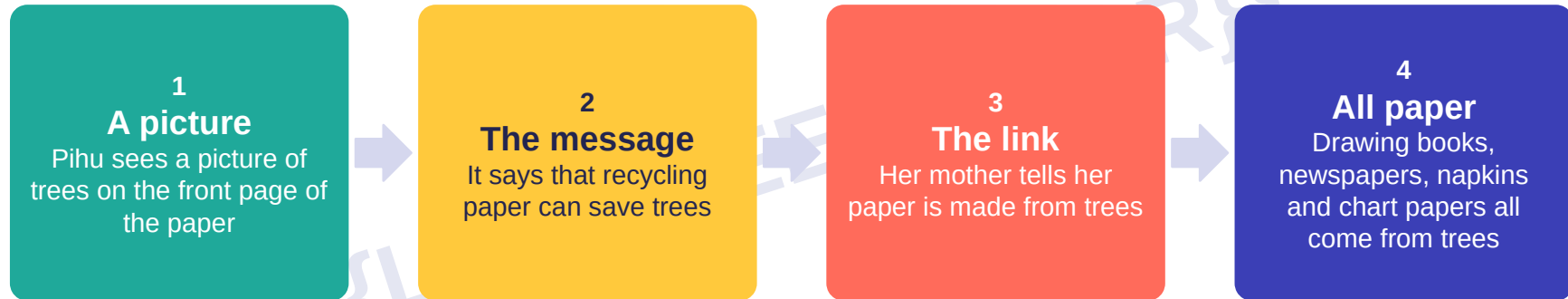
3

The link

Her mother tells her paper is made from trees

Pihu asks about paper

On a Sunday Pihu is painting while her mother reads the newspaper.



Recycled paper pot

Pihu touches a pot that looks as if it is made of paper.

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Recycled paper pot

Pihu touches a pot that looks as if it is made of paper.

It feels rough

Its surface is rougher than her smooth drawing book.

Recycled paper pot

Pihu touches a pot that looks as if it is made of paper.

It feels rough

Its surface is rougher than her smooth drawing book.

Why?

Her mother says it is made from recycled paper.

Recycled paper pot

Pihu touches a pot that looks as if it is made of paper.

It feels rough

Its surface is rougher than her smooth drawing book.

Why?

Her mother says it is made from recycled paper.

Pihu asks

"Can we make such paper?"
Her mother says, "Let us try."

Make recycled paper

Old newspapers become new paper in five steps.

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Make recycled paper

Old newspapers become new paper in five steps.

1

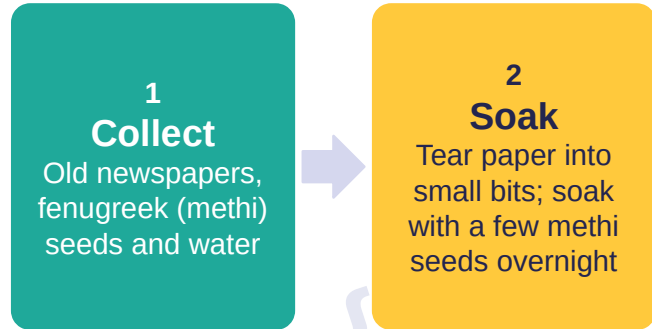
Collect

Old newspapers,
fenugreek (methi)
seeds and water

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Make recycled paper

Old newspapers become new paper in five steps.



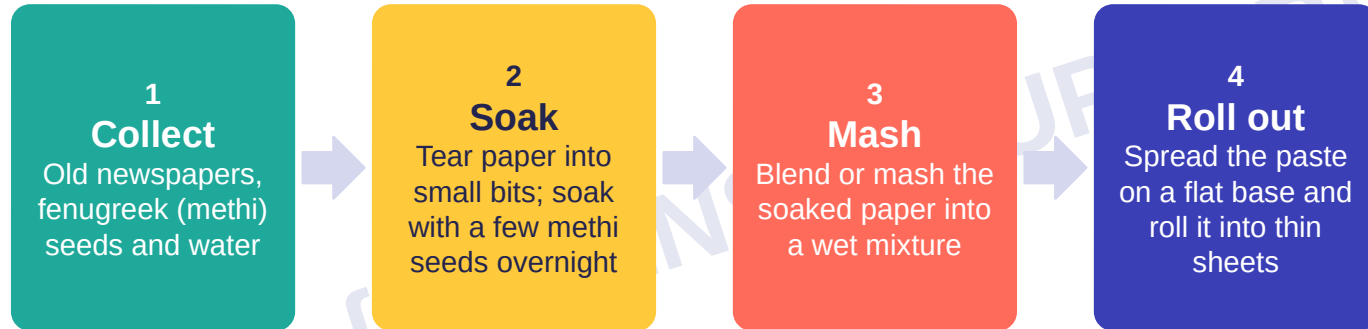
Make recycled paper

Old newspapers become new paper in five steps.



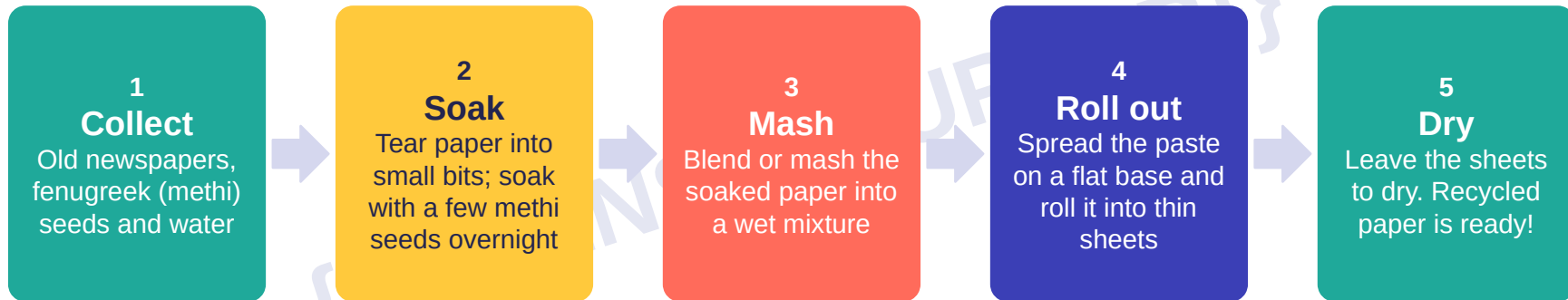
Make recycled paper

Old newspapers become new paper in five steps.



Make recycled paper

Old newspapers become new paper in five steps.



Colouring paper with plants

Natural dyes come from parts of a plant.

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Colouring paper with plants

Natural dyes come from parts of a plant.

Plant parts

Leaf, flower, root, seed or stem can give natural dye.

Colouring paper with plants

Natural dyes come from parts of a plant.

Plant parts

Leaf, flower, root, seed or stem can give natural dye.

Safe

Natural dyes are safe to use.

Colouring paper with plants

Natural dyes come from parts of a plant.

Plant parts

Leaf, flower, root, seed or stem can give natural dye.

Safe

Natural dyes are safe to use.

Other uses

They also colour clothes and pots.

Colouring paper with plants

Natural dyes come from parts of a plant.

Plant parts

Leaf, flower, root, seed or stem can give natural dye.

Safe

Natural dyes are safe to use.

Other uses

They also colour clothes and pots.

Experiment

Same size paper and same amount of ingredient for a fair test.

Natural colour experiment

Ingredient

Colour it gives

Dull or bright

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Natural colour experiment

Ingredient	Colour it gives	Dull or bright
Turmeric	Yellow	Dull (book example)

Natural colour experiment

Ingredient	Colour it gives	Dull or bright
Turmeric	Yellow	Dull (book example)
Spinach	Green	Answers vary

Natural colour experiment

Ingredient	Colour it gives	Dull or bright
Turmeric	Yellow	Dull (book example)
Spinach	Green	Answers vary
Beetroot	Pink or red-purple	Answers vary

Natural colour experiment

Ingredient	Colour it gives	Dull or bright
Turmeric	Yellow	Dull (book example)
Spinach	Green	Answers vary
Beetroot	Pink or red-purple	Answers vary
Henna	Orange-brown or green	Answers vary

A special gift

Pihu makes something for her mother.

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A special gift

Pihu makes something for her mother.

The card

Pihu gives her mother a lovely greeting card made from recycled paper.

A special gift

Pihu makes something for her mother.

The card

Pihu gives her mother a lovely greeting card made from recycled paper.

Thank you

Pihu thanks her mother for teaching her to recycle paper.

Book paper is made from wood pulp

Paper in books looks different from recycled paper.

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Book paper is made from wood pulp

Paper in books looks different from recycled paper.

Wood pulp

Book paper is made from wood pulp.

Book paper is made from wood pulp

Paper in books looks different from recycled paper.

Wood pulp

Book paper is made from wood pulp.

Many trees

A large number of trees are cut for it.

Book paper is made from wood pulp

Paper in books looks different from recycled paper.

Wood pulp

Book paper is made from wood pulp.

Many trees

A large number of trees are cut for it.

Same steps

The steps are similar to making recycled paper.

Book paper is made from wood pulp

Paper in books looks different from recycled paper.

Wood pulp

Book paper is made from wood pulp.

Many trees

A large number of trees are cut for it.

Same steps

The steps are similar to making recycled paper.

Needs

Many trees, a lot of water and a lot of energy.

Before paper and new ideas

People once wrote on other things.

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Before paper and new ideas

People once wrote on other things.

Earlier days

People wrote on cloth, leaves and wooden boards.

Before paper and new ideas

People once wrote on other things.

Earlier days

People wrote on cloth, leaves and wooden boards.

Talapatra

In India people used palm leaves called talapatra.

Before paper and new ideas

People once wrote on other things.

Earlier days

People wrote on cloth, leaves and wooden boards.

Talapatra

In India people used palm leaves called talapatra.

Banana fibre

It can be used to make paper. It saves trees and protects nature.

Types of paper and uses

Type of paper	Use
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Types of paper and uses

Type of paper	Use
Tissue paper	Cleaning: thin, soft, absorbs water

Types of paper and uses

Type of paper	Use
Tissue paper	Cleaning: thin, soft, absorbs water
Cardboard	Boxes for packing: thick and hard

Types of paper and uses

Type of paper	Use
Tissue paper	Cleaning: thin, soft, absorbs water
Cardboard	Boxes for packing: thick and hard
Writing paper	Writing (added)

Types of paper and uses

Type of paper	Use
Tissue paper	Cleaning: thin, soft, absorbs water
Cardboard	Boxes for packing: thick and hard
Writing paper	Writing (added)
Newspaper	Reading news (added)

Types of paper and uses

Type of paper	Use
Tissue paper	Cleaning: thin, soft, absorbs water
Cardboard	Boxes for packing: thick and hard
Writing paper	Writing (added)
Newspaper	Reading news (added)
Art paper	Drawing and painting (added)

Braille paper

Paper also helps people who cannot see well.

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Braille paper

Paper also helps people who cannot see well.

How it works

Visually challenged people read and write by feeling patterns of tiny bumps.

Braille paper

Paper also helps people who cannot see well.

How it works

Visually challenged people read and write by feeling patterns of tiny bumps.

What it shows

The patterns stand for numbers, letters and punctuation.

The 5Rs: first three

A 5-step plan to reduce waste.

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The 5Rs: first three

A 5-step plan to reduce waste.

Refuse

Say no to things that make waste. Example: single-use paper cups.

The 5Rs: first three

A 5-step plan to reduce waste.

Refuse

Say no to things that make waste. Example: single-use paper cups.

Reduce

Use things carefully. Example: write on both sides of paper.

The 5Rs: first three

A 5-step plan to reduce waste.

Refuse

Say no to things that make waste. Example: single-use paper cups.

Reduce

Use things carefully. Example: write on both sides of paper.

Reuse

Use something many times. Example: use a gift bag again.

The 5Rs: last two

Two more ways to cut waste.

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The 5Rs: last two

Two more ways to cut waste.

Repurpose

Use something in a new way. Example: toys from old newspapers.

The 5Rs: last two

Two more ways to cut waste.

Repurpose

Use something in a new way. Example: toys from old newspapers.

Recycle

Steps turn a thing into something new. Example: old newspapers into handmade paper.

Get creative with paper

Old newspapers can become toys and decorations.

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Get creative with paper

Old newspapers can become toys and decorations.

Pictures show

A dancing doll, paper butterflies and a bird.

Get creative with paper

Old newspapers can become toys and decorations.

Pictures show

A dancing doll, paper butterflies and a bird.

Why do it

It helps the environment, saves resources and cuts pollution.

Get creative with paper

Old newspapers can become toys and decorations.

Pictures show

A dancing doll, paper butterflies and a bird.

Why do it

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Your turn

Make something from used paper or paper pulp.

Points to remember

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Points to remember

- 1 Paper is made from trees, so use it carefully.

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Points to remember

- 1 Paper is made from trees, so use it carefully.
- 2 Old newspapers can be recycled into new paper with water and methi seeds.

Points to remember

- 1 Paper is made from trees, so use it carefully.
- 2 Old newspapers can be recycled into new paper with water and methi seeds.
- 3 Natural dyes from plants are safe for colouring.

Points to remember

- 1 Paper is made from trees, so use it carefully.
- 2 Old newspapers can be recycled into new paper with water and methi seeds.
- 3 Natural dyes from plants are safe for colouring.
- 4 Remember the 5Rs: refuse, reduce, reuse, repurpose, recycle.

CHECK

Activities, discuss and let us reflect

Every activity, discussion and reflection task from the textbook chapter, in book order, with a model answer. Open tasks show what a good result includes.

Make recycled paper using old newspapers, fenugreek seeds and water.

30s

Think and write your answer first. Then share with your partner.

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Make recycled paper using old newspapers, fenugreek seeds and water.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good result: torn paper soaked overnight with a few methi seeds, mashed to a pulp, rolled thin and dried into a sheet. Methi seeds bind the pulp.

Make recycled paper using old newspapers, fenugreek seeds and water.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good result: torn paper soaked overnight with a few methi seeds, mashed to a pulp, rolled thin and dried into a sheet. Methi seeds bind the pulp.

Listen for:

5 steps

methi binds

dry sheet

Natural colour experiment (expected results)

Ingredient	Colour and brightness
Turmeric	
Spinach	
Beetroot	
Henna	

Natural colour experiment (expected results)

Ingredient	Colour and brightness
Turmeric	Yellow, dull (given in book)
Spinach	
Beetroot	
Henna	

Natural colour experiment (expected results)

Ingredient	Colour and brightness
Turmeric	Yellow, dull (given in book)
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Beetroot	
Henna	

Natural colour experiment (expected results)

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Natural colour experiment (expected results)

Ingredient	Colour and brightness
Turmeric	Yellow, dull (given in book)
Spinach	Green (answers vary)
Beetroot	Pink or red-purple (varies)
Henna	Orange-brown or green (varies)

Make a greeting card, a paper mask or any such item made of recycled paper.

30s

Think and write your answer first. Then share with your partner.

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Make a greeting card, a paper mask or any such item made of recycled paper.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good result is a card, mask or other item made from the recycled paper, neatly cut and coloured, with a creative design.

Make a greeting card, a paper mask or any such item made of recycled paper.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good result is a card, mask or other item made from the recycled paper, neatly cut and coloured, with a creative design.

Listen for:

recycled paper

colour

creative

Do you think that we waste paper?

30s

Think and write your answer first. Then share with your partner.

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Do you think that we waste paper?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Yes, often: we tear out pages, use one side only, and throw away paper that could be used again. Making paper takes trees, water and energy.

Do you think that we waste paper?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Yes, often: we tear out pages, use one side only, and throw away paper that could be used again. Making paper takes trees, water and energy.

Listen for:

examples

why it matters

How can we reduce wastage of paper?

30s

Think and write your answer first. Then share with your partner.

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How can we reduce wastage of paper?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Use both sides of paper, reuse blank pages, give old books away, make crafts from old paper, and recycle old newspapers.

How can we reduce wastage of paper?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Use both sides of paper, reuse blank pages, give old books away, make crafts from old paper, and recycle old newspapers.

Listen for:

both sides

reuse

recycle

Types of paper and their uses

Type of paper	Use
Writing paper	
Newspaper	
Art paper	
Cardboard	
Tissue paper	

Types of paper and their uses

Type of paper	Use
Writing paper	Writing letters and notes
Newspaper	
Art paper	
Cardboard	
Tissue paper	

Types of paper and their uses

Type of paper	Use
Writing paper	Writing letters and notes
Newspaper	Reading the news
Art paper	
Cardboard	
Tissue paper	

Types of paper and their uses

Type of paper	Use
Writing paper	Writing letters and notes
Newspaper	Reading the news
Art paper	Drawing and painting
Cardboard	
Tissue paper	

Types of paper and their uses

Type of paper	Use
Writing paper	Writing letters and notes
Newspaper	Reading the news
Art paper	Drawing and painting
Cardboard	Making boxes for packing
Tissue paper	

Types of paper and their uses

Type of paper	Use
Writing paper	Writing letters and notes
Newspaper	Reading the news
Art paper	Drawing and painting
Cardboard	Making boxes for packing
Tissue paper	Cleaning; it absorbs water

Which of the 5Rs is it?

Situation	5R
Family takes cloth bags to the shop	
Maya skips a plastic straw	
Rohan uses blank pages of old notebooks	

Which of the 5Rs is it?

Situation	5R
Family takes cloth bags to the shop	Reuse (book example)
Maya skips a plastic straw	
Rohan uses blank pages of old notebooks	

Which of the 5Rs is it?

Situation	5R
Family takes cloth bags to the shop	Reuse (book example)
Maya skips a plastic straw	Refuse
Rohan uses blank pages of old notebooks	

Which of the 5Rs is it?

Situation	5R
Family takes cloth bags to the shop	Reuse (book example)
Maya skips a plastic straw	Refuse
Rohan uses blank pages of old notebooks	Reduce (Reuse also fits)

Which of the 5Rs is it?

Situation	5R
Sara gives old books to younger students	
Kabir paints a bottle as a flower vase	
Priya makes a book bag from old clothes	
Shopkeeper makes envelopes from newspapers	

Which of the 5Rs is it?

Situation	5R
Sara gives old books to younger students	Reuse
Kabir paints a bottle as a flower vase	
Priya makes a book bag from old clothes	
Shopkeeper makes envelopes from newspapers	

Which of the 5Rs is it?

Situation	5R
Sara gives old books to younger students	Reuse
Kabir paints a bottle as a flower vase	Repurpose
Priya makes a book bag from old clothes	
Shopkeeper makes envelopes from newspapers	

Which of the 5Rs is it?

Situation	5R
Sara gives old books to younger students	Reuse
Kabir paints a bottle as a flower vase	Repurpose
Priya makes a book bag from old clothes	Repurpose
Shopkeeper makes envelopes from newspapers	

Which of the 5Rs is it?

Situation	5R
Sara gives old books to younger students	Reuse
Kabir paints a bottle as a flower vase	Repurpose
Priya makes a book bag from old clothes	Repurpose
Shopkeeper makes envelopes from newspapers	Repurpose (Recycle also given)

**What are some objects that you can make using paper pulp?
Ask your teachers and elders for more ideas.**

30s

Think and write your answer first. Then share with your partner.

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**What are some objects that you can make using paper pulp?
Ask your teachers and elders for more ideas.**

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Examples: greeting cards, masks, bowls, pots, toys, decorative items, envelopes.

**What are some objects that you can make using paper pulp?
Ask your teachers and elders for more ideas.**

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Examples: greeting cards, masks, bowls, pots, toys, decorative items, envelopes.

Listen for:

cards

masks

pots or toys

One step for each of the 5Rs

The 5R	Example step
Refuse	
Reduce	
Reuse	
Repurpose	
Recycle	

One step for each of the 5Rs

The 5R	Example step
Refuse	Say no to single-use paper cups
Reduce	
Reuse	
Repurpose	
Recycle	

One step for each of the 5Rs

The 5R	Example step
Refuse	Say no to single-use paper cups
Reduce	Write on both sides of paper
Reuse	
Repurpose	
Recycle	

One step for each of the 5Rs

The 5R	Example step
Refuse	Say no to single-use paper cups
Reduce	Write on both sides of paper
Reuse	Use a gift bag again
Repurpose	
Recycle	

One step for each of the 5Rs

The 5R	Example step
Refuse	Say no to single-use paper cups
Reduce	Write on both sides of paper
Reuse	Use a gift bag again
Repurpose	Make toys from old newspapers
Recycle	

One step for each of the 5Rs

The 5R	Example step
Refuse	Say no to single-use paper cups
Reduce	Write on both sides of paper
Reuse	Use a gift bag again
Repurpose	Make toys from old newspapers
Recycle	Turn old newspapers into paper

Ways to avoid wasting paper

The 5R	Idea for paper
Refuse	
Reduce	
Reuse	
Repurpose	
Recycle	

Ways to avoid wasting paper

The 5R

Refuse

Reduce

Reuse

Repurpose

Recycle

Idea for paper

Do not take paper cups or extra printouts

Ways to avoid wasting paper

The 5R

Refuse

Reduce

Reuse

Repurpose

Recycle

Idea for paper

Do not take paper cups or extra printouts

Use both sides; print only when needed

Ways to avoid wasting paper

The 5R

Refuse

Reduce

Reuse

Repurpose

Recycle

Idea for paper

Do not take paper cups or extra printouts

Use both sides; print only when needed

Use blank pages of old notebooks

Ways to avoid wasting paper

The 5R

Refuse

Reduce

Reuse

Repurpose

Recycle

Idea for paper

Do not take paper cups or extra printouts

Use both sides; print only when needed

Use blank pages of old notebooks

Make paper crafts from old paper

Ways to avoid wasting paper

The 5R

Refuse

Reduce

Reuse

Repurpose

Recycle

Idea for paper

Do not take paper cups or extra printouts

Use both sides; print only when needed

Use blank pages of old notebooks

Make paper crafts from old paper

Make recycled paper from newspapers

Chapter 8 complete

Name one way you will save paper this week.



Recycled paper



Natural dyes



Types of paper



5Rs

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