



MAKE YOUR OWN UPCYCLED COASTER WITH CARDBOARD WEAVING

ACTIVITY OBJECTIVES

This lesson will introduce students to the basic concept of upcycling and using old t-shirt yarn/recycled yarn to make a weaving pattern.

Through making of a square upcycled coaster, students will learn the technique of weaving and making t-shirt yarn from old clothes.

This lesson will also challenge student to create new design templates and be creative to weave patterns.

ACTIVITY OUTCOMES

By the end of the lesson, students should be able to

- 01 ... learn the method of making yarn from old t-shirt
- 02 ... come up with multiple creative designs
- 03 ... learn to weave

POSTER ANATOMY

HOW TO MAKE AN UPCYCLED COASTER?

EMPATHIZE DEFINE

What is upcycling?

Upcycling is the process of transforming old or unwanted materials into something new.

WHY?

Why upcycle?

By repurposing existing materials, upcycling helps to reduce waste, conserve resources, and lower the environmental impact of production.

What can we start doing to reduce the amount of waste we generate?

IDEATE

Look Around you!

Do you have any old and unwanted clothes? Why not make your own T-shirt yarn with it?

Watch the following video to learn how to make t-shirt yarn.

What can we do with our t-shirt yarn?

Do you notice a weaving pattern on your shirts or bags?

History of Weaving

Weaving is one of the **oldest surviving crafts** in the world.

The basic principle of weaving was **applied to interlace** branches and twigs to create fences, shelters and baskets for protection.

How to start?

- Did you notice the terms 'Warp' and 'Weft' in the example below? Which one should we do first?
- Use different coloured yarns to create a beautiful weave by using the weaving template provided.

MAKE

Make Your Own Upcycled Coaster!

Watch this video to learn how to weave.

- 1

Wind the yarn around the teeth on the template like the image on the left and tie a knot at the two ends of the template.
- 2

Start Weaving! The "Weft" goes above and below the "Warp". Continue the opposite direction for the second row.
- 3

Continue Weaving. Remember the weft goes above and below the warp.
- 4

Lastly, overturn the template and remove it from the teeth.

SHARE

Share & Reflect!

How will you integrate the weaving technique into a new product? Be creative and create unique weaving patterns.

3

1

2

4

5

1. This indicates the activity title.
2. This section serves as a little icebreaker to introduce and warm the students to the activity.
3. This section provides a starting point for the students. It is designed to be open-ended to encourage students to consider possible approaches.
4. This section provides step-by-step instructions of the activity for the students to, while giving them the opportunity to still figure it out themselves.
5. This section encourages students reflect, improve and develop their end product further by considering possibilities and breaching the 'Wide Walls'.

SUGGESTED MATERIALS



SDG 11: Sustainable Cities & Communities

UPCYCLED COASTER



Using yarn made from old clothes, beautiful and functional coasters can be weaved quickly and easily!

Suggested Materials	Per Student
Cloth yarn	As needed
Weaving needle	1
Weaving template	1

UPCYCLED COASTER

Maker Activity	How to make an upcycled coaster
Competencies	Prototyping and Making
Approach	Facilitation Goal (To be chosen by the educator)
Tinker to Discover	Facilitating testing student's understanding i.e. after teaching the theory
Subject Integration	Art, Craft
SDG Goal	SDG11: Sustainable Cities & Communities

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Linkage

What makes it a make to learn approach?

The maker education approach is said to be a 'Make to learn' approach if it meets the following considerations.

- Defined learning goals
- Provides structure, scaffolds, and support for learners.

Guidelines/ Facilitation Tips

Students will learn how to weave a simple upcycled coaster using yarn made from old clothes.

- Think creatively under constraints
- Apply the subject topic knowledge for making

Structures & Scaffolds

- Defined and structured short- and long-term learning goals.
- Defined and structured setting a learning path and defined tasks
- Clear and explicit instructions
- Learners reflect on content, skill, and mindset development
- Learners make meaning through experience
 - How old clothes can be made into yarn
 - How to weave

The hook: Get students to think about how old clothes can be given a new lease of life

Maker Element: Hands-on making of upcycled coaster

Testing & Presentation: Helps to impart basic weaving skills and to showcase their creativity

UPCYCLED COASTER

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Part	Description
Introduction	Students may refer to the poster's heading, which introduces them on how to make an upcycled coaster The top left corner of the poster explains what upcycling is and talks about the uses of upcycling.

Part	Description
1. Ideate	By following the instructions, students will be encouraged to think about converting old clothes into yarn instead of throwing them away Students will scan this QR code or visit this link https://youtu.be/0fLfZHA7wFg to discover how T-shirt yarns are made.
2. Make	By following the steps, students will learn how to weave their own upcycled coaster.
3. Share	This part of the poster challenges the students to think about they can use weaving to make other products with interesting patterns.

ANNEX: POSTER

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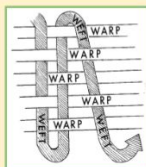
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History of Weaving

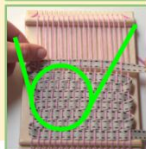
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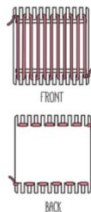
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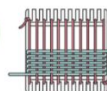
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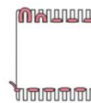
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