

**Activity****BEST FROM WORST**

Look at the bad idea for a solution and think of better ideas for solutions.



Bucket



Bucket with Holes!



Someone used it  
to make a shower!

Write down a bad idea for the following products and use them to make one better idea.

**B  
A  
D  
I  
D  
E  
A**



**B  
E  
T  
T  
E  
R  
I  
D  
E  
A**

Thinking creatively can give you different and unique ideas and there are various ways of becoming creative!

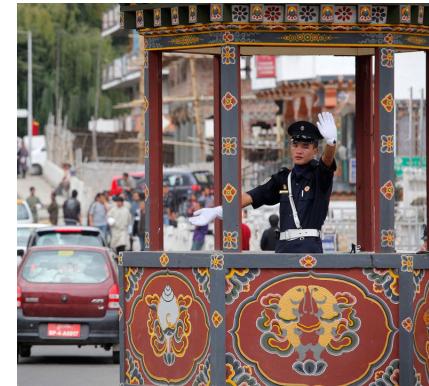
**Activity****PROCESS vs PRODUCT**

Remember! You have seen or read about these solutions in your journey so far!

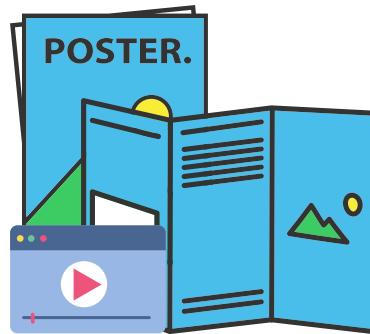
Let's see if these solutions are Product based or Process based. Mark the answers below.

**Umbrellas that can be worn on head**

Process Based   
Product Based

**Having a Traffic Police to control traffic**

Process Based   
Product Based

**Showing videos and sharing posters about water wastage**

Process Based   
Product Based

**Making notebooks from old ones to reduce wasting unused paper**

Process Based   
Product Based

Think of product and process based solutions for your problem as well! Every problem will have multiple solution!

**Activity**

## Brainstorming : First Idea Crazy Idea

Think about this problem: "Old unused tyres lying around in parks."

Below are a few ideas to solve the problem. Look at how these old unused tyres were transformed into great ideas!



Let's think differently! Each of you can sketch the first idea that comes to your mind to solve the problem of **used old tyre** below.

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While thinking of solution you can create wonderful ideas when everyone contributes.  
Everyone thinks differently and that is inspiring!

**Activity****Brainstorming : First Idea Crazy Idea**

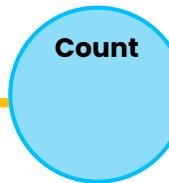
Now as a team let us think of ideas really fast. Write down all the ideas you can think of for the condition given below within the time given. Give as many answers as possible, then count and write the number of ideas below.



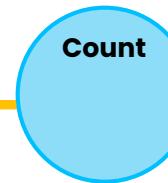
**You have to measure the distance in a room but you don't have a scale.**  
**Think of all the others ways you can measure distance.**



**Think all the ways in which you can use old newspaper for different uses.**

A light blue circle containing the word "Count".

**Count**

A light blue circle containing the word "Count".

**Count**

Thinking fast and writing down all the ideas that come to your mind without waiting will give you many ideas.  
Let's try it for your problem!

## Worksheet

## Brainstorming: First Idea Crazy Idea



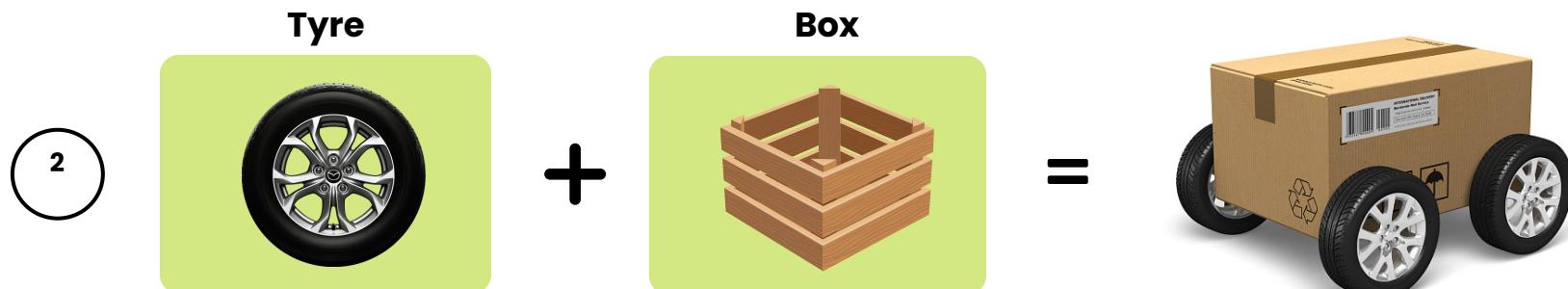
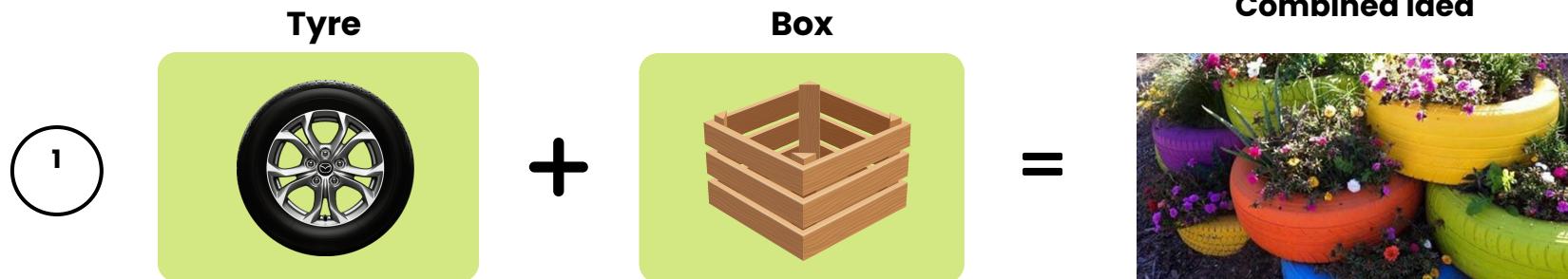
Now you are ready to work on your problem!

Write down **all** the ideas you can think of for your problem in 5 minutes. Make sure all teammates add atleast one idea.

From here you can work of choosing, discussing, combining and improving various ideas!

**Activity****Brainstorming: Open Storming**

Combining ideas can help give better and newer ideas. Let's try this with the unused tyre problem.



Sometimes if you try to combine few ideas together, you might get even greater ideas!  
Even while combining, you'll see that two ideas can be combined in different ways as per your needs!

**Activity**

## Brainstorming: Open Storming

Now try to combine the below ideas in which ever way you want and sketch the best idea the team can think of.

**Cup****Straw****Combined Idea****Pencil****Ruler****Combined Idea**

Let's try the same with the ideas for your problem.

**Worksheet**

## Brainstorming: Open Storming

Use the ideas in the First Idea- Crazy Idea for your problem. Select a few ideas, discuss and combine ideas to improve idea and write them down here.

### Improved Idea



The more you discuss and focus on each idea, the better the idea will become!

**Activity****Brainstorming : What – If**

You can also use the 'What If' method to think of other types of ideas!

**Problem:** Old unused tyres lying around in parks.

**Write down all possible 'What-If' Questions that can be used  
to think of more solutions.**

What-if the solution is a person?

What- if the solution is another product?

What- if the solution is a communication?

**What if -** \_\_\_\_\_

What- if the solution is a process?

**What if -** \_\_\_\_\_

You can use these 'What-If' questions to think of new ideas for your problem.

**Worksheet****Brainstorming : What - If**

Now use the 'What If' method to think of possible other types of ideas for your problem!  
Choose from above activity and apply it to your problem -

**Use the questions you made before using 'What-If'**

**Hints : a Process, a Product, a Person, Cheap, Light, Flexible,Eco-friendly, a Communication, Sustainable**

**What if your solution is a**

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**What if your solution is a**

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**What if your solution is a**

-----

*\*You can use any condition you want to. Add more columns if needed*

**Activity**

## Brainstorming : Rolestorming

Look at the following problem and solution.

**Problem: Old unused tyres lying around in park**

**Stakeholder 1: Gardner, used the old tyre to make flower pots. Think like Stakeholder 2 : Furniture maker.  
Write down how the 'Furniture Shop' stakeholder might design a solution differently.**

Stakeholder 1:  
**Gardner**



Stakeholder 2:  
**Furniture Shopkeeper**

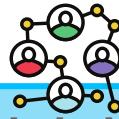


Do you see how your solutions can change for the same problems depending on who you are thinking like!

**Worksheet**

## Brainstorming : Rolestorming

Note down the different Stakeholders you identified for your problem. Now think of the solutions as the stakeholder!

**Stakeholders****Think of ideas for your problem as the stakeholder**

## Worksheet

**SOLUTION SELECTION – FUSE RUBRIC**

<b>Solution and Description</b>	<b>Feasibility</b> How effectively can it be implemented? (time, cost, materials required)	<b>Usefulness</b> Will users find it useful?	<b>Sustainability</b> Will the solution last long?	<b>Effectiveness</b> Is it helping achieve the goal in the problem statement?	<b>FINAL SCORE</b> Total added score

**Worksheet****WHAT IS YOUR SOLUTION?**

Draw/Sketch/Write in detail - What is/are your **SOLUTION** going to be?

**Worksheet****FEEDBACK**

People who are related to a problem can give feedback on ideas. Feedback helps to make your idea more effective. Recall the following solutions that you have read about so far and try to think of people they would have talked to for feedback!

You can use the following hints:

**THINK OF PEOPLE CLOSE TO YOU  
WHO ARE FACING THE PROBLEM**

**THINK OF PEOPLE WHO HAVE FACED THE PROBLEM  
BEFORE AND HAVE MORE INFORMATION ABOUT IT**

**THINK OF PEOPLE WHO HAVE THE  
SKILL TO WORK WITH THE PROBLEM**

**THINK OF PEOPLE WHO ARE DECISION MAKERS  
AND ARE INVOLVED IN SOLVING THE PROBLEM**



**Remember Thato's solution of Schools bags with Solar lamps for students in areas with electricity shortage?**

Think of atleast 5 people she could have talked to for feedback when she thought of the idea at first!

Now think about your solution. List down a few people you can talk to for feedback on your solution.

**Activity****FEEDBACK AND REFINE**

The Team talked to a few people and got Feedback on their selected solution. But it got all mixed up! Can you join the IDEA TITLE to their correct IDEA FEEDBACK and NEW IDEA using lines?

**IDEA TITLE****IDEA FEEDBACK  
What did they say?****NEW IDEA DESCRIPTION  
How are you improving the idea?**

Cloth bags and cleaning products like a mop or a duster made from clothes that can no longer be repaired

Awareness campaign in neighbourhoods in the community.

Starting a stitching class for adults in community with the help of the tailor in our neighbourhood

The students themselves will help spread the word about textile waste in their homes and communities.

Interested in being a part in solving the problem, they don't have a lot of time to spare for these stitching classes.

Really tiny pieces of cloth waste can't be used for mops

Introducing stitching classes in school and then all of us will learn to repair our own clothes.

Tiny pieces of clothes can be used by Farah to design new shoes and soles.

Focus on conducting the awareness drives within our schools and also the schools in our neighbourhoods.

**Worksheet****FEEDBACK AND REFINE**

Write down the feedback you got for your ideas and how you'll use them to improve the solution.



IDEA TITLE	IDEA FEEDBACK What did they say?	NEW IDEA DESCRIPTION How are you improving the idea?

\*Create your own table if and Add more columns if needed

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