

# MIC Space Week

## STEM Challenges



### SPACE WEEK

Our Planet • Our Space • Our Time



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Take a picture of your solutions & tag us in your posts!

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@SpaceWeekIreland @BlackrockCastleObservatory

@blackrockcastleobservatory



# MIC Space Week



## STEM Challenges

To celebrate Space Week from Sunday 4 October to Saturday 10 October 2020, Mary Immaculate College (MIC) are bringing you lots of different, fun rocket making activities for you to do at home or at school. These activities can be done on your own or as part of a team.

You will be able to source all of the materials needed for each challenge from what you have in your home or classroom.

You will think and act like an Engineer and follow the Engineering Design Process throughout these challenges. The Engineering Design Process is a series of steps that guides engineering teams as they solve problems.

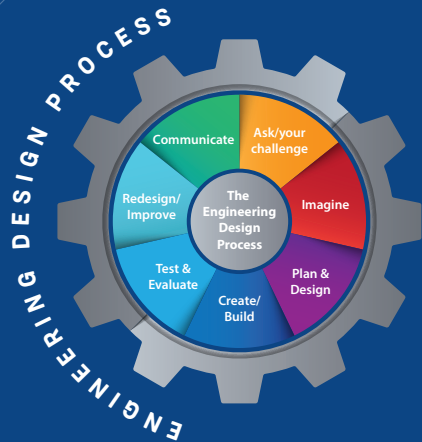
We would love to see some of your designs so be sure to get your parents or teachers to take a picture of your design and tag us in their social media posts using #STEMChallengesMIC.

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# MIC Space Week

# 1.



## Challenge 1:

- Design and create an Air Powered Rocket



### Materials you can use:

A4 sheet of paper, Straw, Scissors, Ruler, Pencil, Sticky tape and Measuring tape.

### What you need to do to complete the challenge:

- Can you build a simple Air Powered Straw Rocket.
- You will be using the straw as your launch pad.
- The rocket will be powered by air i.e. blowing through the straw.



# MIC Space Week

# 1.



## Challenge 1:

- Design and create an Air Powered Rocket



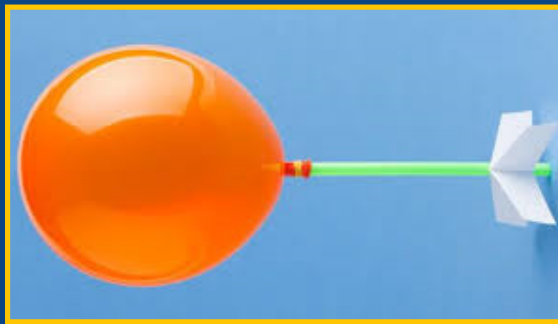
# MIC Space Week

## 2.



### Challenge 2:

- Design and create an Air Powered Balloon Rocket



#### Materials you can use:

Balloons, Straw, String, Scissors, Sticky tape, Measuring Tape.

#### What you need to do to complete the challenge:

- Can you build a simple Air Powered Balloon Rocket to travel across the room. (horizontally across the room).
- You will be using the string as the rocket's flight path.

# MIC Space Week

## 2.



### Challenge 2:

- Design and create an Air Powered Balloon Rocket





# MIC Space Week

## 2.



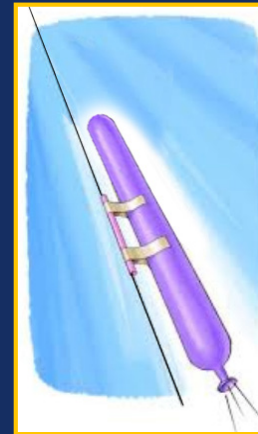
### Challenge 2:

- Design and create an Air Powered Balloon Rocket

Can you build an Air Powered Balloon Rocket with two balloons?



Can you design and make a Balloon Rocket that will fly vertically from the floor up to the ceiling or as high as you can get it to go?



# MIC Space Week

# 3.



## Challenge 3:

- Design and create a Stomp Rocket



### Materials you can use:

Plastic Bottles, Straws/Tube, Scissors, Sticky tape, Measuring Tape.

### What you need to do to complete the challenge:

- Can you build a Stomp Rocket?
- How high can you launch the rocket into the sky?



# MIC Space Week

# 3.



## Challenge 3:

- Design and create a Stomp Rocket



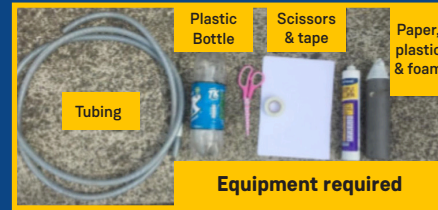
# MIC Space Week

# 3.



## Challenge 3:

- Design and create a Stomp Rocket



# MIC Space Week

# 3.



## Challenge 3:

- Design and create a Stomp Rocket

