

# The Marches STEM Challenge

It's 2 weeks until we would normally be celebrating The Marches as a town. Did you know this is only the 4<sup>th</sup> time in history that The Marches has been cancelled? The good news is that we can still take part so have a look at these challenges and choose how you want to get involved.

**REMEMBER TO CHECK WITH PARENTS/CARERS BEFORE TRYING ANY OF THESE TASKS.**

## Task 1 - Bunting

One of my favourite things about this time of year is seeing the town decorated with bunting. This year the Deacon's Court, who organise The Marches, are looking for us to brighten up the town with our own bunting.

*Your challenge is to design and create your own family bunting. It could be enough to go in your window or you could challenge yourself to create some for your garden.*

Things to consider:

- **How will you make your bunting?** You could draw or paint it, use recycled materials or even get sewing.
- **Which materials will be best?** Think about the properties of the materials you can use. Does your bunting need to be waterproof, strong or flexible?
- **What will the theme of your bunting be?** You could choose a colourful pattern or add decorations to represent your family, Linlithgow or our school.





## Task 2 - Outfit

At the Crying of The Marches the people of the town are invited to attend The Marches in their best “apparel and array”.

*Your challenge is to design your own Marches outfit.*

Things to consider

- What is the theme of your outfit??
- How can you make it suitable for the weather?
- Can you add some technology to your design to make it special?
- What accessories will you include to make you stand out in the crowd?

## Task 3 - Float

One of the highlights of the procession is the floats. I love seeing all the different creations and the effort that has gone into them. I think you would all be able to design fantastic floats!

*Your challenge is to design and create your own model float for the Marches procession.*

Things to consider:

- What theme will your float have? It could be a favourite film or tv character, related to your hobby, a topic from school or a worldwide event.
- What will make you float stand out? Can you design some exciting hidden features to bring your float to life?
- How will you make your model float? How is it going to move? Will it be built around a car or van or pulled on a trailer?



## *Learning Tools*

### Early Level – Nursery/P1

Allow your child to choose which tasks they want to complete. Provide them with a range of materials and use the templates to get them started. They could draw, paint, glue and stick or build with cardboard or Lego.

Some questions to ask your child to prompt learning:

- Can you make a pattern (sequence) with your bunting?
- What clothes will you need if it is sunny/raining/cold?
- How can we build a float?
- What materials could we use?
- What will we need to make the float move?

You can take photos of your child's work and email it to the school.

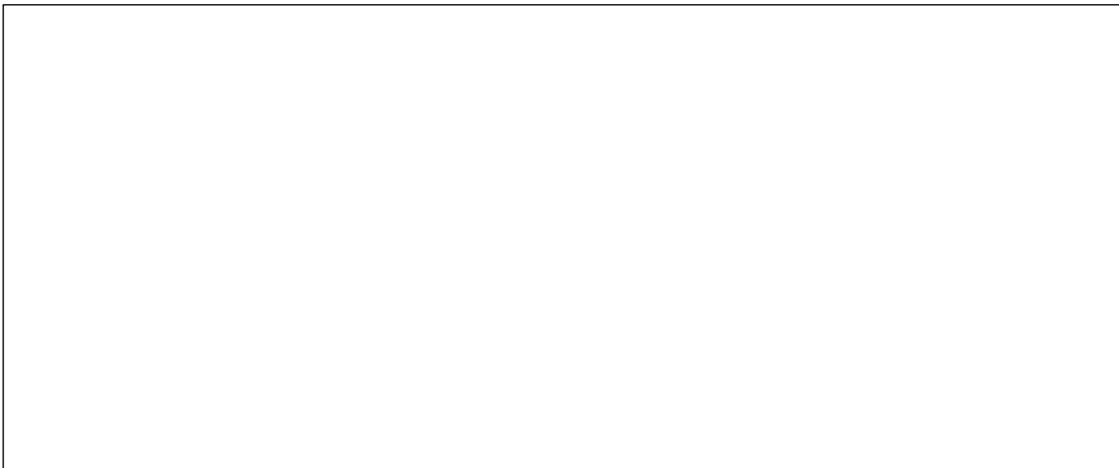
## Learning Tools

### First Level (P2/P3/P4)

#### Task 1

- Take time to plan out your bunting. What do you want it to look like? What materials will you use to make it?

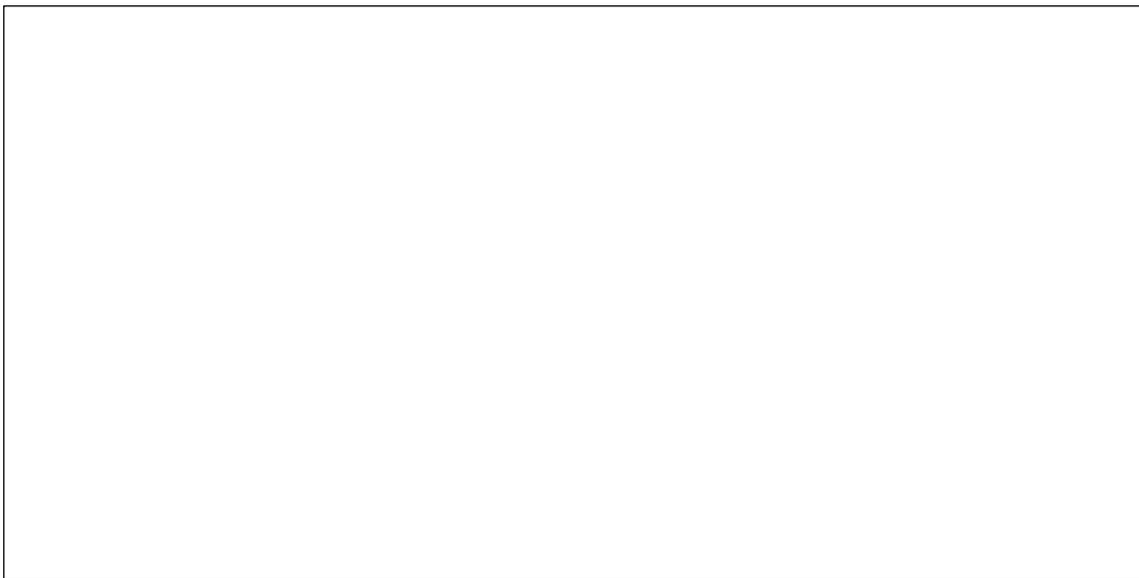
#### Plan



#### Task 2

- Choose what clothing you will design for yourself.
- Think about what the weather might be like and choose suitable materials.
- What accessories will you include?
- Remember to label and explain your design.

#### Design



## Learning Tools

### First Level (P2/P3/P4)

#### Task 3

##### Plan

- Choose what theme your float will have.
- Draw out a few ideas for what your float could look like.
- How will your float move? Will it be built around a vehicle or pulled on a trailer?
- Will you float have any special features? It could have moving parts or blow out bubbles.
- What will you use to make your float? You could build it out of Lego, use cardboard boxes or even try paper mache by layering paper and glue over a frame.

##### Design

A large empty rectangular box with a thin black border, intended for drawing a design of the float.

## *Learning Tools*

### Second Level (P5/P6/P7)

#### Task 1

- Decide where you want your bunting to go and measure how long it will need to be.
- Create your own design. Can you make a repeating pattern?
- Choose which materials will be best. If it is going outside it will need to be able to get wet and be strong. If you are hanging it upside you don't want it to be too heavy as this will make it difficult to stick up at the window.
- Make your bunting and display it proudly.

#### Plan

A large empty rectangular box with a thin black border, intended for students to write their plan for the task.

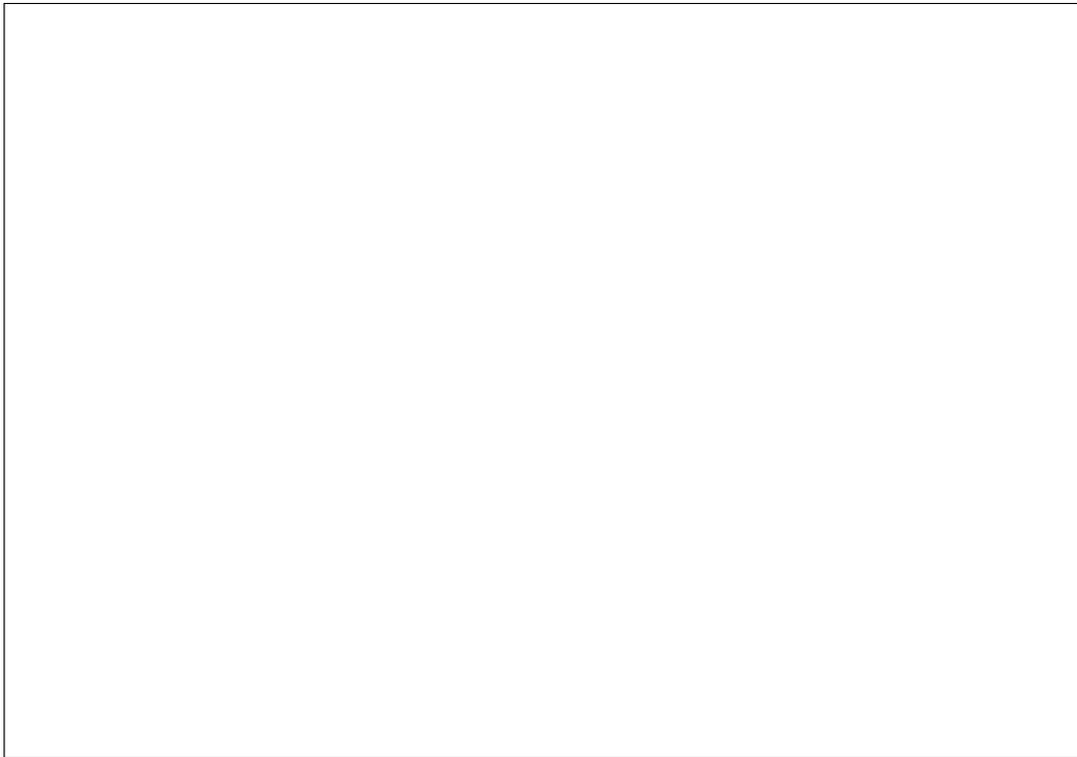
## Learning Tools

### Second Level (P5/P6/P7)

#### Task 2

- Choose which clothing you will design for yourself.
- Think about what the weather might be like and choose suitable materials.
- What accessories will you include?
- Can you include some wearable technology to enhance your design or to protect you from the weather?
- Remember to label and explain your design.

#### Design



#### Explanation



## Learning Tools

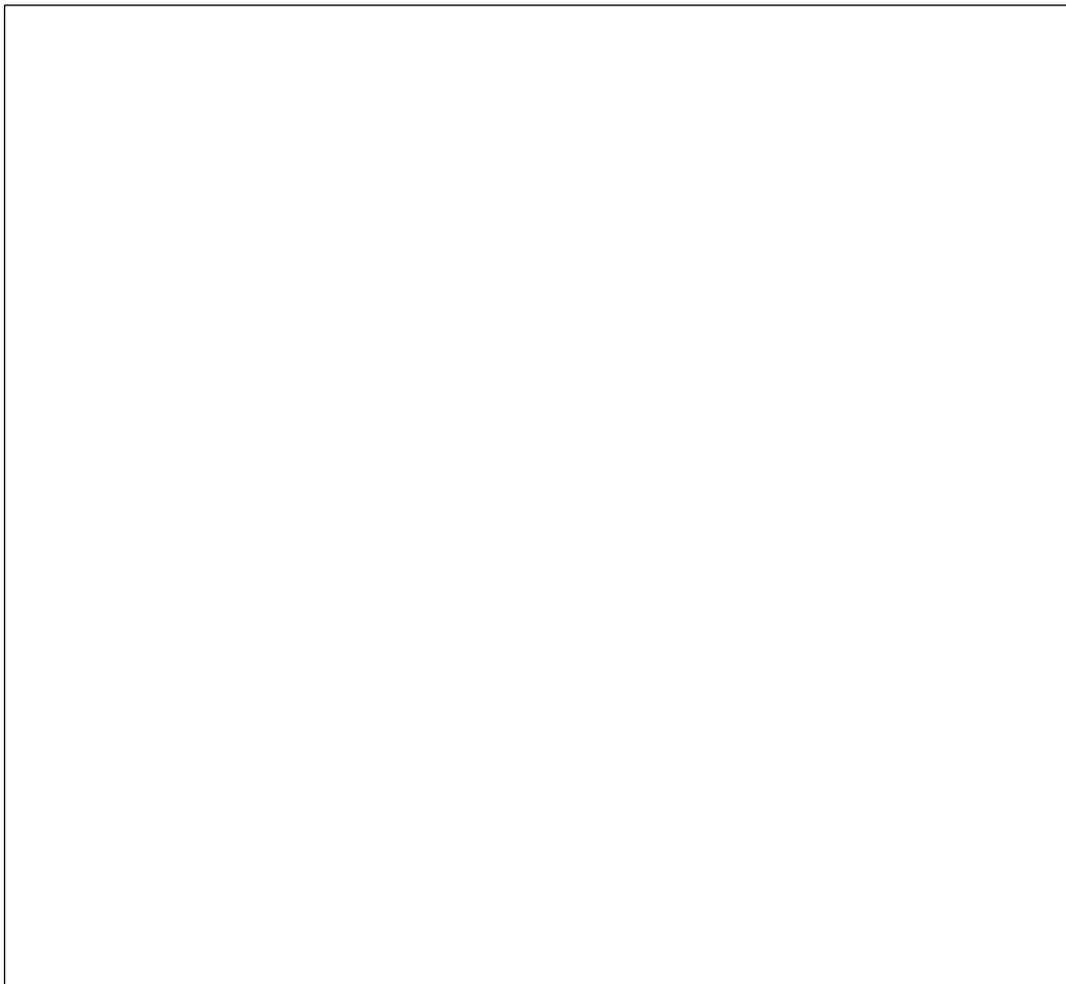
### Second Level (P5, P6, P7)

#### Task 3

##### Plan

- Choose what theme your float will have.
- Draw out a few ideas for what your float could look like.
- How will your float move? Will it be built around a vehicle or pulled on a trailer?
- Will you float have any special features? It could have moving parts or blow out bubbles.
- What will you use to make your float? You could build it out of Lego, use cardboard boxes or even try paper mache by layering paper and glue over a frame.

##### Design

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