

DT Day (Home Learning)

WEEK BEGINNING 20TH APRIL

In school, we were planning a STEM (Science, Technology, Engineering and Maths) day. As this can't happen at the moment, we have provided similar versions of the activities for you to have a go at from the safety of your own homes.

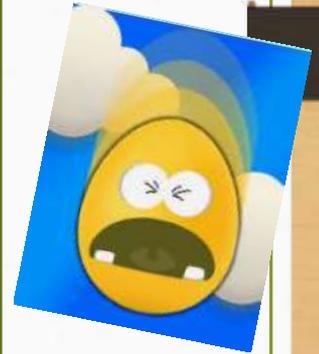


Reception 'Save the Easter Egg' competition!

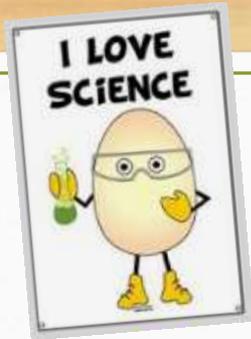
We are having a whole school STEM (science, technology, engineering and maths) day and we would like you to take part!

You will need:
A boiled egg
Pens or paints (to decorate)
Different surfaces (to land on)

- We would like you to use a boiled egg to decorate and then save.
- You will need to drop your egg from a height and try and save it!
- **Science:** Is the surface hard or soft?
- **Technology:** What materials can you use to save the egg?
- **Engineering:** What places can you think that will help to save it?
- **Maths:** Can you drop it from a higher/ lower place?
How many times did you drop it?



Record your egg drop and share it with your teacher - they will share some of the best ones with Mr Leigh for the celebration assembly.



Year 1 'Save the Easter Egg' competition!

You will need:
A boiled egg
Pens or paints (to decorate)
Different surfaces (to land on)
Different materials to protect it

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We would like you to use a boiled egg to decorate and then save.

You will need to drop your egg from a height and try and save it!

- **Science:** Compare the results of different egg drops.
- **Technology:** What different materials could you use to save it?
- **Engineering:** Does the landing spot matter? Does the height matter?
- **Maths:** Can you find the lowest (shortest) highest (tallest) place to drop it?

Record your egg drop and share it with your teacher - they will share some of the best ones with Mr Leigh for the celebration assembly.



Year 2

'Save the Easter Egg' competition!

You will need:
A boiled egg
Pens or paints (to decorate)
Different surfaces (to land on)
Different materials to protect it
A ruler or tape measure

We are having a whole school STEM (science, technology, engineering and maths) day and we would like you to take part!

We would like you to use a boiled egg to decorate and then save.

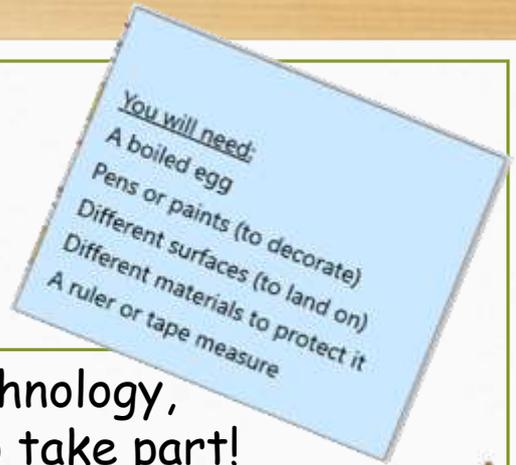
You will need to drop your egg from a height and try and save it!

- **Science:** Compare the results of different egg drops and think about what made the difference.
- **Technology:** Think about how you could join materials (paper, sellotape, fabric, wood, metal) to protect the egg.
- **Engineering:** How will the type of material help? Does it need help above the egg or below, or both?
- **Maths:** Can you use centimetres or metres to measure how high you have dropped it from?

Record your egg drop and share it with your teacher - they will share some of the best ones with Mr Leigh for the celebration assembly.



Year 3 'Save the Easter Egg' competition!



We are having a whole school STEM (science, technology, engineering and maths) day and we would like you to take part!

We would like you to use a boiled egg to decorate and then save.

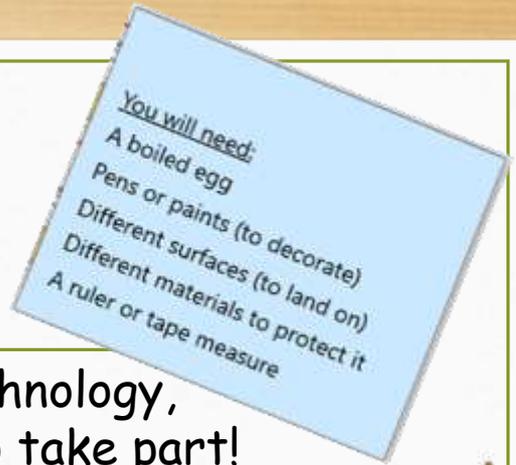
You will need to drop your egg from a height and try and save it!

- **Science:** Can you make a table to show where you dropped it from and what happened?
- **Technology:** If it is not successful, consider changing your design to improve it.
- **Engineering:** Make a list of ideas/ materials you could use. Can you include diagrams too? Which will be better?
- **Maths:** Can you accurately use centimetres or metres to measure where you have dropped it from?

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Year 4 'Save the Easter Egg' competition!



We are having a whole school STEM (science, technology, engineering and maths) day and we would like you to take part!

We would like you to use a boiled egg to decorate and then save!

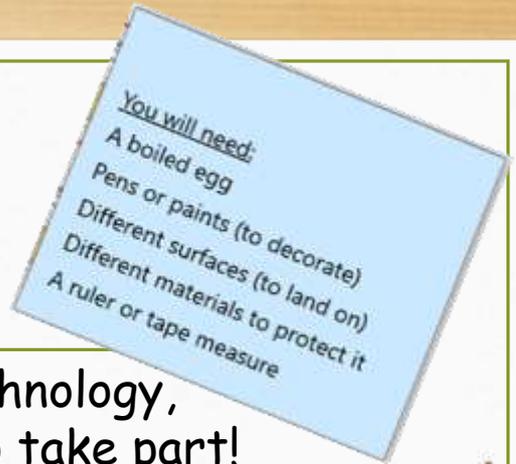
You will need to drop your egg from a height and try and save it!

- **Science:** Explain your findings and why you think you got the results you did.
- **Technology:** Record what different parachute shapes could you use? Do they make a difference?
- **Engineering:** How will you attach your protective invention to the egg?
- **Maths:** Can you create drops of equal distances to test your invention?
Measure your design accurately using mm and cm.

Record your egg drop and share it with your teacher - they will share some of the best ones with Mr Leigh for the celebration assembly.



Year 5 'Save the Easter Egg' competition!



We are having a whole school STEM (science, technology, engineering and maths) day and we would like you to take part!

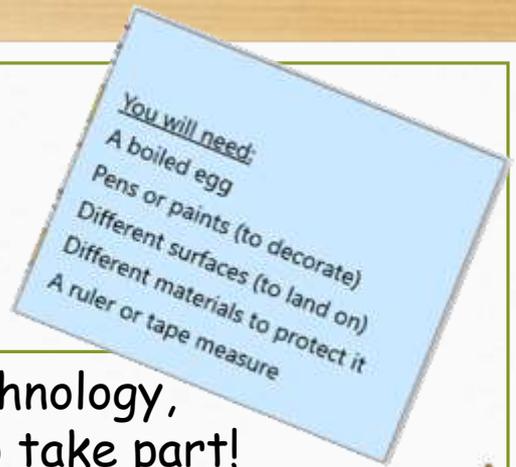
Use a boiled egg to decorate and then save. You will need to drop your egg from a height and try and save it!

- **Science:** Explain your findings and why you think you got the results you did.
- **Technology:** Evaluate: What worked well? What would you change? What could be altered slightly?
- **Engineering:** Draw up a plan/diagram with measurements to show how and why you have created your design. Does the weight of your invention make a difference to the egg drop?
- **Maths:** Adapt your design and try again. Which fraction, decimal or % of your drops were successful?

Record your egg drop and share it with your teacher - they will share some of the best ones with Mr Leigh for the celebration assembly.



Year 6 'Save the Easter Egg' competition!



We are having a whole school STEM (science, technology, engineering and maths) day and we would like you to take part!

Use a boiled egg to decorate and then save. You will need to drop your egg from a height and try and save it!

- **Science:** Explain your findings and why you think you got the results you did. Include a graph.
- **Technology:** Research other successful designs. Create a design criteria (what do you want to include/ what's its purpose and evaluate against these criteria.
- **Engineering:** Draw up a plan/diagram with measurements to show how and why you have created your design. Does the weight of your invention make a difference to the egg drop?
- **Maths:** Find the perimeter and area of the surfaces of your invention. Does this help/hinder?

Record your egg drop and share it with your teacher - they will share some of the best ones with Mr Leigh for the celebration assembly.