



# Midhurst Rother College

The best in everyone™

Part of United Learning

20 October 2021

Dear Parent/Carer

## Get ahead, stay ahead

As we approach half term, I wanted to take this opportunity to wish you and your family a restful break and also to tell you that we are planning another round of our exciting 'Get ahead, stay ahead' competition.

Once again, there are an array of different subject tasks for your child to complete that aim to activate and consolidate learning in the run up to Christmas and beyond. On completion of these tasks, students will be awarded a Golden Ticket as per the subject information which can be found on the subsequent pages of this letter.



In November, all Golden Tickets will be placed into year group draws and students will have the opportunity to win either £10 Amazon vouchers in Year assemblies or £20 Amazon vouchers in Whole College assembly. Students will be able to collect multiple Golden Tickets and make multiple entries into the competition, therefore increasing their chances of winning.

Families and students may wish to take the little and often approach to this competition, as they recharge their batteries and spend time away from Midhurst Rother College. However, others may choose to take an approach that fits with their family plans.

Once again, I would like to wish you a restful break and look forward to working with your son/daughter in the run up to Christmas.

Yours sincerely

Ms Lucy Owoh  
Vice Principal

**Principal: Stuart Edwards**

Midhurst Rother College  
North Street  
Midhurst

West Sussex GU29 9DT

t 01730 812451

f 01730 813524

e [enquiries@mrc-academy.org](mailto:enquiries@mrc-academy.org)

[www.mrc-academy.org](http://www.mrc-academy.org)



## Golden Ticket Tasks

### ENGLISH

Task(s)	Golden Tickets available
<p><b>1</b> Every year Midhurst Rother College submits entries for the Midhurst Rotary Committee's 'Writing Competition'. Last year two of our students won the local round and were put forward into the National competition.</p> <p>This year's title is 'My Inspiration'. Over half term plan and write a piece of writing in any form, genre or style using 'My Inspiration' as your stimulus.</p> <p>Ideally entries need to be typed and emailed to <a href="mailto:natasha.parsons@mrc-academy.org">natasha.parsons@mrc-academy.org</a> or they can be handed into your English teacher.</p>	<b>2</b>

### MATHS

Task(s)	Golden Tickets available
<p><b>1</b> Complete independent learning on Sparx and complete questions that are outstanding from previous homeworks. Tickets will be awarded based on independent learning XP points earned.</p>	<b>2</b>

### SCIENCE

Task(s)	Golden Tickets available
<p><b>1</b> Choose 1 or both practical activities to carry out. 1 Golden Ticket per practical. Record your observations and write out a method of what you did (a step by step guide) – try to include photos of any observations if you have access to a camera.</p> <p><b>Practical 1 - Detecting electrons</b> This practical activity will take about <b>15 minutes</b>.</p> <p><b>You will need:</b></p> <ul style="list-style-type: none"><li>• a plastic comb (or inflated balloon)</li><li>• a running tap with a narrow stream of water (or a 1 litre plastic drinks bottle with a very small hole near the bottom)</li><li>• some dry and clean hair (or forearm)</li></ul> <p><b>Your health and safety:</b> You should handle sharp objects with care.</p> <p><b>What you need to do:</b></p> <ol style="list-style-type: none"><li>1. If, for some reason, you cannot get a narrow stream of water from a running tap, you could make a very small hole in a plastic bottle about 3 cm from the bottom using a sharp point. Fill the bottle with tap water, close the lid of your water bottle and put it in a convenient place (e.g. on the edge of your draining board or somewhere where the water can drain away). Check you can turn a fine stream of water on and off by opening and closing the lid of the bottle.</li><li>2. Comb your hair with the comb until your hair becomes 'static', or rub your forearm with the inflated balloon until you feel it tingle. This experiment works best on a dry day.</li><li>3. Hold your comb or balloon close to the narrow stream of water.</li></ol>	<b>2</b>

Write down what you did and what you observed. Try to explain why it happened. If nothing happened consider why. There is always a good scientific reason.

### **Practical 2 - Investigating volume and mass of water after freezing**

**Allow about 30 minutes** to carry out this practical. You will also need to allow for a minimum of 8 hours freezing time (this could be done overnight). It is best if you divide your time into 15-minute blocks either side of the freezing time.

#### **You will need:**

- a domestic freezer
- an empty 500 ml transparent plastic bottle (if possible with straight sides – plastic milk bottle)
- a pair of scissors
- cling film
- water
- weighing scales
- a permanent marker pen
- a ruler

#### **Your health and safety:**

Sharp objects should be handled with care.

#### **What you need to do:**

1. Check the plastic bottle will stand up straight in your freezer and then cut off the top of the bottle just below the neck with a pair of scissors.
2. Place the empty bottle on the most sensitive scales you have in your home; note the obtained mass in your notebook and include appropriate units.
3. Roughly half-fill your bottle with water.
4. Weigh the bottle again, this time half-filled with water; note the obtained mass in your notebook including units.
5. Draw a line on the outside of the bottle to mark the height of the water. Measure the height of the water in the bottle in cm and note the height and units in your notebook.
6. Cover your plastic bottle with some cling film and put it into the freezer overnight or until all the water has turned to ice.
7. Once the water has frozen, remove the bottle from the freezer, discard the cling film and reweigh as before.
8. Mark on the outside of the bottle the height of the ice and then measure the height in cm.
9. Put all your results into a table such as Table 1 below.
10. Write down what you did, which bottle (or container) you used and your observations. These could be the appearance of your ice, how long you froze the water and any specific circumstances which could make you doubt the validity of a result. You may want to take a photo of your bottle and/or a close-up of your block of ice.

**Table 1** Results for Practical 2: Investigating volume and mass of water after freezing.

<b>Phase</b>	<b>Mass/g</b>	<b>Height/cm</b>
Water		
Ice		

## DRAMA

Task(s)	Golden Tickets available
<p><b>1</b></p> <p>Research the role of a lighting designer. Create an information sheet/poster which explains the role to someone who knows nothing about this. Think about including:</p> <ul style="list-style-type: none"><li>• Who a lighting designer is and their role in the Theatre?</li><li>• Give some examples of key lighting designers though time and some examples of their designs.</li><li>• Different types of lanterns – what are they called/what are they used for?</li><li>• What is a Gobo? A gel? A lighting rig?</li><li>• Make sure you give your opinion on the poster too about lighting.</li></ul> <p>Make your work as colourful and as interesting as you can to be handed in first lesson back after half term. Good luck!</p>	<p><b>1</b></p>

## COMPUTER SCIENCE

Task(s)	Golden Tickets available
<p><b>1</b></p> <p><b>YR8 Computer Science</b></p> <p>Use your newly found programming skills to complete one of the Python Projects on <a href="http://www.codeclubprojects.org">www.codeclubprojects.org</a>, <u><a href="#">show your completed project to your teacher to receive a Golden Ticket.</a></u></p>	<p><b>1</b></p>