

Year 8 into 9 Holiday Homework



Summer 2026

Year 8 into 9 Holiday Home Learning

2026

Dear Students,

This home learning booklet is designed to help you understand key areas of the subjects that are studied in Year 9 and support preparation for next year.

All the activities must be completed **in the booklet**. There are two sides allocated to each subject area.

The **English, Maths and Science** activities are compulsory and **must be completed**. On your first lesson back, you must carefully tear the work out of the booklet and **hand this into your class teachers in English, Maths and Science**. Make sure you write your full name clearly on the work.

Two further subjects must also be completed, this is compulsory. (You can do more than two if you wish). These must be **handed to your Form Tutor** during your first tutor period back. Make sure you write your full name clearly on the work. These will be **checked and logged by your Form Tutor**.

Do your best work, good luck!

Dear Parents/Carers,

Thank you for your support with home learning. Please read through the expectations above with your child.

In addition to the tasks set, we also strongly advise daily reading over the break. Just **10-15 minutes a day can make a real difference**. Research shows that reading regularly helps maintain vocabulary, comprehension and fluency, which supports progress across all subjects. It also builds emotional intelligence, supports well-being and develops concentration and imagination. If students do not read over the summer holidays, their reading age will regress. Please check in with your child that they are visiting the school library before the summer break to borrow their reading books.

Kind Regards,

Ms S Gray. Deputy Headteacher Teaching and Learning

Ms S Sulliman. Lead Practitioner-Literacy

Year 8 into Year 9 – English Summer Homework 2026

Complete the tasks below on the back of this sheet and bring it to your first English lesson after the holidays.

TASK 1: Next term, you will be reading a book set in the United States of America in the 1930s. Research EACH of the following:

- What is the American Dream?
- What were the “Roaring Twenties”?
- What was the Wall Street Crash?
- What is segregation? When did segregation end in America?
- What was the status of women in 1930s America?

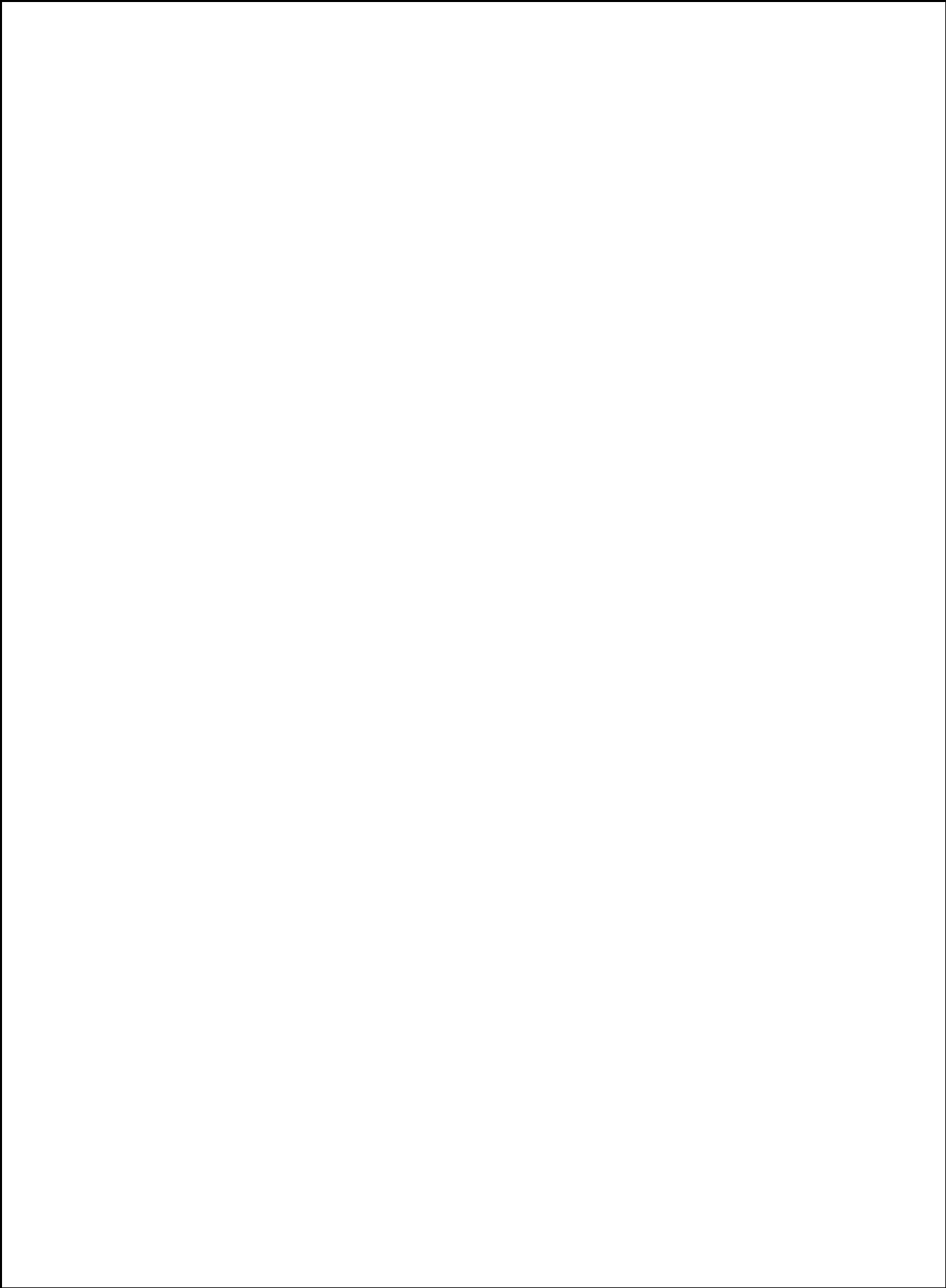
TASK 2: Design an A4 poster called “America in the 1930s”.

In your poster, you should include:

- At least 30 words on EACH of the topics you researched for Task 1.
- Images which show what life was like for Americans in the 1930s

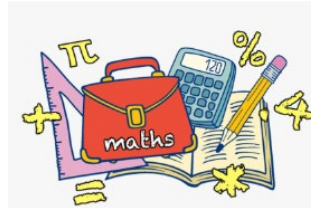
Look at the example below for inspiration on the kind of poster you *might* produce.





Year 8 into 9 Maths

Number



Complete the following sentences:

$$5 \times 5 = 25 \text{ so } \sqrt{25} = 5.$$

$$4 \times 4 = \underline{\quad} \text{ so } \sqrt{\quad} = \underline{\quad}.$$

$$\underline{\quad} \times \underline{\quad} = 81 \text{ so } \sqrt{81} = \underline{\quad}.$$

Calculate:

$$5 + (-4) =$$

$$4 - 7 =$$

$$-3 + 8 =$$

$$5 - (-2) =$$

$$5 \times -4 =$$

$$-4 \times -7 =$$

Find 20% of £30

Find 40% of £120

$$100\% = \text{£}30$$

$$100\% = \text{£}120$$

$$10\% = \text{£}\underline{\quad}$$

$$20\% = \text{£}\underline{\quad}$$

Increase

54g by 17%

$$100\% + 17\% = 117\%$$

$$117\% = 1.17$$

$$54 \times 1.17 = \underline{\quad}$$

Increase

250cm

by 8%

$$100\% + 8\% = \underline{\quad}$$

$$\underline{\quad}\% = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Decrease

£80

by 16%

$$100\% - \underline{\quad}\% = \underline{\quad}$$

$$\underline{\quad}\% = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Round the following numbers to the given accuracy:

2 5 . 8 3 2 *to 1.d.p*

5 . 3 3 1 2 *to 2.d.p*

3 5 . 1 4 *1 significant figure*

2 . 9 3 2 1 *3 significant figures*

Estimate:

$$\frac{54.3 + 13.92}{5.85} = \underline{\quad} + \underline{\quad} =$$

Algebra

Solve the following equations:

$$5x + 12 = 32$$

$\xrightarrow{\times 5 \quad +12}$
 $\xleftarrow{\div 5 \quad -12}$

$$\frac{x - 4}{2} = 11$$

$\xrightarrow{\hspace{1cm}}$
 $\xleftarrow{\hspace{1cm}}$

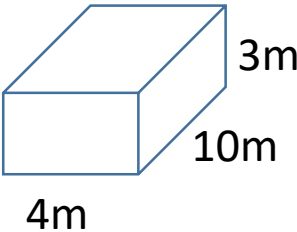
$$5x + 12 = 2x + 4$$

$$\begin{array}{ccc} -2x & & -2x \\ & = & \end{array}$$

Shape

Find the Volume of

a) This cuboid:



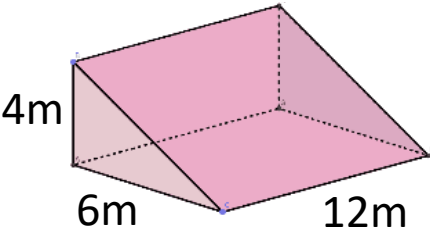
Area of the cross Section

$\text{_____} \times \text{_____} = \text{_____} m^2$

Volume:

$\text{_____} \times \text{_____} = \text{_____} m^3$

b) This Triangular prism:



Area of the cross Section

Volume:

Data

Find the **mean, median, mode** and **range** of this set of data

2, 5, 8, 3, 1, 2

Mean = $\text{_____} \div \text{_____} =$

Median: (middle – order first) =

Mode: (Most common) =

Range: (Biggest – smallest) =

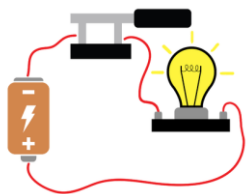
The table shows how many goals were scored in each game by England in the 2024 Euros

Number of goals	Frequency	Totals
0	1	
1	4	
2	2	

How many games did they score 1 goal? _____

What is the mean number of goals per game:

$\text{_____} \div \text{_____} =$



Year 8 into 9 Science Holiday Homework

This year you have learned about electricity - how to build circuits and how electrical energy is shared between components. This homework will consolidate and extend what you learned in the topic.

There are two tasks to complete and submit to your science teacher in September.

Task 1: questions to consolidate what you have learned

1. Draw a circuit that has a cell, a bulb, a motor and an open switch.

A large empty rectangular box with a black border, intended for the student to draw a circuit diagram.

2. Add a voltmeter to your drawing to show how you would measure the potential difference of the motor.
3. What would you observe when you turned on the switch?

4. What would you expect to see on your voltmeter?

5. Explain the reason for your expected observations.

6. Explain what would happen if you added a piece of wood to the circuit.

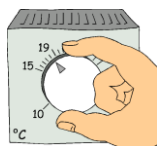
Task 2: Electricity Comprehension Task

Electrical circuits often contain **components called sensors**. Sensors detect changes in the environment and allow devices to respond automatically.



One **common sensor is a thermistor**. A thermistor is a **resistor** whose resistance changes when the temperature changes. In most thermistors, the resistance decreases as the temperature increases. Thermistors are used in devices that need to **monitor** temperature, such as central heating systems, refrigerators, digital thermometers and some fire alarms.

Another important sensor is a **light dependent resistor (LDR)**. An LDR changes its resistance depending on the amount of light falling on it. **When it is bright, the resistance is low. When it is dark, the resistance is high.** LDRs are often used in automatic streetlights, garden lights and security lighting because they can detect when it becomes dark.



Electrical engineers use special symbols to represent components in circuit diagrams. **A resistor is used to reduce the flow of current in a circuit.** A variable resistor allows the resistance to be adjusted. **A light emitting diode (LED) is a component that produces light** when current flows through it. Thermistors and LDRs are special types of resistors because their resistance changes in response to conditions around them.

Sensors make many everyday devices safer, more efficient and easier to use. Without them, many automatic systems would require people to operate them manually.

Comprehension Questions

1. What is a sensor? _____
2. What happens to the resistance of a thermistor when the temperature increases?

3. What happens to the resistance of an LDR when it becomes dark?

4. What is the purpose of a resistor in a circuit?

5. Which component produces light when current flows through it?

Challenge Question – Complete the table below by drawing the circuit symbols for each component. You may need to research some of them!

resistor	
variable resistor	
Light Dependent Resistor (LDR)	
Light Emitting Diode (LED)	
thermistor	

ART Homework:

draw your favourite book character

This will be different from anyone else who reads the same book, because great characters make a unique impression on anyone who reads the story because of the individual response to the the story.

For example fans have loved Harry Potter and his friends for decades. This is because they are great characters and make a big impression on the reader through their adventures. JK Rowling also thoughtfully describe how they look and act to evoke emotions in the reader. They can be a good or a bad character, and your design should look to reflect that.

How will you start your design?

You want your design to reflect the characters personality, are they soft, round, and goofy? How can you show this by drawing? Perhaps lean and grumpy like The Grinch? You could even exaggerate certain features to create a more expressive and engaging character.

Then write a short scene to describe where your character is, what are they doing, why are they there? What is about to happen? How do they feel?

Character Name:



Harry potter examples -
But you can do any character you want.

Year 8 into 9 Computer Science

Investigating Artificial Intelligence (AI) and its impact on society

Artificial Intelligence (AI) is technology that allows computers to perform tasks that normally require human intelligence, such as: recognising images, answering questions, translating languages and making recommendations.

AI is becoming a bigger part of everyday life. You will investigate how AI is used and consider both its positive and negative impacts on society.



Task AI in different industries

Research how AI is used in **one** industry, then use the sentence starters to introduce the industry, explain how AI is used and benefits. Select from the list below.

healthcare

sport

gaming

transport

retail

finance

entertainment

Introducing the industry

AI is used in the ... industry to...

One way AI is used in... is...

People working in... use AI to...

Explaining how AI is used

The AI system can...

It works by...

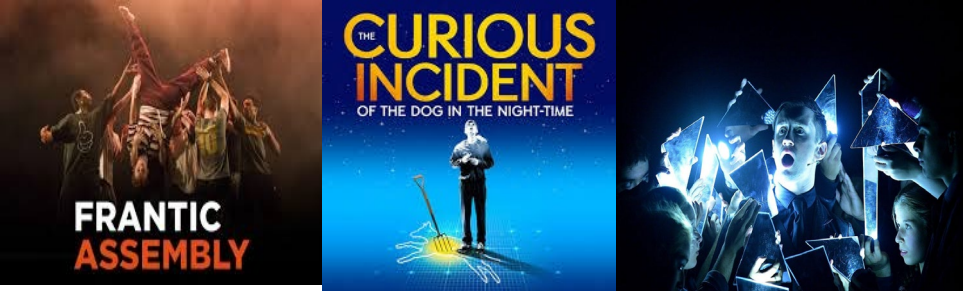
The technology analyses...

The AI program collects information and then...

It can recognise patterns in...so that...

The system learns from data to...

[illegible]



Introduction to The Curious Incident of the Dog in the Night-Time and Frantic Assembly

Creative Task

Imagine you are directing a Frantic Assembly version of *The Curious Incident of the Dog in the Night-Time*.

In the box below, create a poster design for the production. Include:

- The title of the play
- Images, symbols, or colours that represent Christopher's journey
- At least three words that describe the style of the performance

For further information on the play, physical theatre and Frantic Assembly:

Youtube: '**Adapting a novel for theatre | English Literature – The Curious Incident of the Dog in the Nighttime**'

What is it?

The Curious Incident of the Dog in the Night-Time is a play based on the bestselling novel by Mark Haddon. The story follows **Christopher Boone**, a 15-year-old boy who sees the world differently from those around him. When he discovers that his neighbour's dog has been killed, he decides to investigate the mystery. Along the way, he uncovers secrets about his family and learns more about himself.

Who is Frantic Assembly?

Frantic Assembly is a famous British theatre company known for creating exciting performances using physical theatre. Instead of relying only on dialogue, actors tell stories through movement, lifts, teamwork, and creative staging. Their performances are energetic, emotional, and visually powerful.

My poster design



Y8 into Y9 Geography Summer Homework: The Development World Cup!

Global Development—this is the study of how wealth, health, and quality of life vary across our planet. While teams at the World Cup compete on a level playing field on the pitch, the countries they represent have very different economic realities off of it. Geographers categorise countries into three levels of development based on their wealth and industry:

- **LICs (Low Income Countries):** Countries where wealth is lower, and many people work in primary industries like farming or mining.
- **NEEs (Newly Emerging Economies):** Countries experiencing rapid economic growth, industrial development, and urbanisation (cities growing).
- **HICs (High Income Countries):** Wealthy nations with advanced economies dominated by service industries (banking, technology, entertainment).

The table below shows some of the countries competing in the World Cup, according to their level of development:

Low Income Countries (LICs)	Newly Emerging Economies (NEEs)	High Income Countries (HICs)
Haiti	Brazil	England/Scotland
Democratic Republic of Congo	Mexico	United States of America
Senegal	South Africa	Canada
Ivory Coast	Argentina	Germany
Ghana	Turkey	France
Uzbekistan	Egypt	Japan
Iraq	Colombia	South Korea

Task 1: Answer the questions below:

1. Choose one player from the tournament - which country do they play for and identify which development level does that country belong to.

2. As hosts, what challenges might Mexico (NEE) face that the USA and Canada (HICs) do not?

3. Look at the HIC and LIC columns above. Explain how a country's level of economic development might give its national football team an unfair advantage before the tournament even begins.

Task 2: Label the countries on the map and colour code by their level of development. Complete the key.

Key:
LIC:
NEE:
HIC:



Year 8 into Year 9

HISTORY HOLIDAY HOMEWORK - WORLD WAR ONE: LIFE IN THE TRENCHES – The Battle of the Somme

TASK

In year 9 you will be learning about World War One. Read this Newsround article and watch the videos to find out about the Battle of the Somme 1916. QR code here:

<https://www.bbc.co.uk/newsround/36641199>

Use the information as research to create a newspaper article about the Battle of the Somme. It can be about any aspect of the Battle.

Your article needs to include:

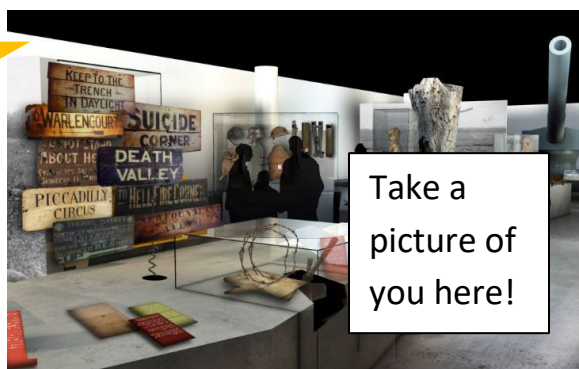
- A headline
- A photograph / image
- A soldier interview
- A summary of how the battle is progressing and its objectives.

If you want to please carry out further independent research on your own. Use the template on the following page or create your own



Super star Challenge (optional):

Visit the **World War One Exhibition at the Imperial War Museum near Waterloo**. Take a selfie to show your teacher in September.



Headline:

Article by:

[illegible]

The picture above shows ...

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

MFL – Year 8 into 9

Actividad (Activity) 1: Translate into English.

1. visité monumentos	
2. descansé en la playa	
3. monté en bicicleta	
4. bailé	
5. nadé en el mar	
6. tomé el sol	
7. saqué fotos	
8. comí la comida típica	
9. hice senderismo	
10. fui a la playa	

Actividad (Activity) 2: Read the 3 texts and complete the table below in English.

En julio fui a Portugal con mis padres. Fuimos en avión y durante el viaje vi una película. Nos quedamos en un hotel al lado de la playa. Fuimos por una semana y lo pasé genial.	El año pasado mi familia y yo fuimos a España. Fuimos en coche. Durante el viaje hablé con mi hermana. Nos quedamos en una villa en el campo. Fuimos por quince días pero fue un poco aburrido al final.	El invierno pasado fui a Austria con mi colegio. Fuimos en autocar. Durante el viaje hablé con mis amigos y jugamos a las cartas. Nos quedamos en un albergue juvenil en la montaña durante cinco días. ¡Lo pasé bomba!
Gloria	Manuel	Javier

	Gloria	Manuel	Javier
When are they travelling?			
Where are they going?			
Who are they going with?			
How did they travel?			
What did they do during the journey?			
Where did they stay?			
How was the holiday?			

Actividad (Activity) 3: Use the vocabulary above, the questions in Activity 2 and your own ideas to write about your favourite ever holiday in Spanish – or make one up!

My Favourite Ever Holiday!

Music Holiday Home Year 8 to Year 9

Michael Jackson – 'Billie Jean'

Michael Jackson was an iconic American singer, songwriter, and dancer, often referred to as the **"King of Pop."** He was born on August 29, 1958, and passed away on June 25, 2009. Jackson gained worldwide fame as a member of the Jackson 5 during his childhood and later as a solo artist.

- **Musical Impact:** He revolutionized pop music with hits like "Thriller," "Billie Jean," "Beat It," and "Smooth Criminal."
- **Innovations:** Known for his distinctive voice, dance moves including the moonwalk, and ground breaking music videos.
- **Awards:** He won numerous awards, including multiple Grammy Awards.
- **Philanthropy:** He was also known for his humanitarian efforts and support for various charitable causes.

If you do not have access to a piano or keyboard download a free piano app, eg: **Perfect Piano** or **Virtual Piano**, from the **Apple app** store, **Playstore** or practice technique using the keyboard on **Page 168 of your diary**.

Watch the video of Michael Jackson's 'Billie Jean'. Scan the **QR code** to watch the video.

Task 1 - Practice the bass line of 'Billie Jean'.

Place your **left** hand in a micro scale position **1** - with your finger No5 (pinkie/little finger) on the note **B**. Practice the bass notes slowly until you can play fluently. **1,3,2,1,2,3,5,3**

Note pattern 1-Left hand



Position 1

F#, C#, E, F#
1, 3, 2, 1

E, C#, B, C#
2, 3, 5, 3

Note Pattern 2-Left hand



Position 2

B, F#, A, B
1, 3, 2, 1

A, F#, E, F#
2, 3, 5, 3

Move your hand to micro scale position **2**. With your finger No5 (pinkie/little finger) on the note **E**. Practice the bass notes, **1,3,2,1,2,3,5,3**, slowly until you can play fluently.

Play bass pattern **1** and then bass pattern **2** slowly and fluently

Scan the **QR code** to watch video tutorials.

<https://www.youtube.com/watch?v=467ybFOYJec>

<https://www.youtube.com/watch?v=qCq7UuWNr8Y&t=28s>

Practice many times to perfect.



Task 2 – Learn the Moon Walk

Watch the Moonwalk tutorial and practice the dance move.

<https://www.youtube.com/watch?v=pDTvqS2GMVo>

Scan The QR code for the video tutorial.

Practice many times to perfect.



Yr 8 into 9 PE and Sport Task - Keep a Summer Fitness Diary!

Your mission: throughout the summer, you are to complete physical activities and create a paper-based diary to showcase your journey and progress.

You must complete at least FIVE physical activities before creating your diary entries.

Discuss this first with a parent or carer as you may need adult support or supervision to do these safely.

Task 1 - Get Active

Choose **3 activities** from the list below.

- 20 minute walk
- 20 minute bike ride
- Jog or run for 10 minutes
- Play sport with a friend or family member
- Complete a home workout
- Complete 50 air squats
- Dance continuously for 15 minutes

Task 2 - Create your diary entries

Create 3 diary entries. Each entry must include:

- A drawing of the activity
- A caption describing the activity
- How you felt before and after

Diary Entry 1	Diary Entry 2	Diary Entry 3

Yr 8 into 9 PE and Sport Task - Keep a Summer Fitness Diary!

Task 3 - Reflection

Which activity was the most challenging and why?

How did physical activity affect your mood, energy levels or wellbeing?

What advice would you give to another student who wants to become more active?

PSHE Character Curriculum Homework - Year 8 into 9

Social Effectiveness - working well with others

Objective:

To demonstrate your knowledge of what healthy and non-healthy relationships look like and to explore how to effectively manage conflict.

The Task:

You are tasked with communicating in poster form what healthy and unhealthy relationships feature and what positive resolution of conflict looks like to highlight how to minimise toxic friendships, repair with teachers and to improve social effectiveness of students in Southfields Academy.

Research Links:

- <https://lmkletmeknow.org/healthy-relationships/>
- <https://www.barnardos.org.uk/get-support/support-for-young-people/mental-health/relationships/unhealthy-relationships>

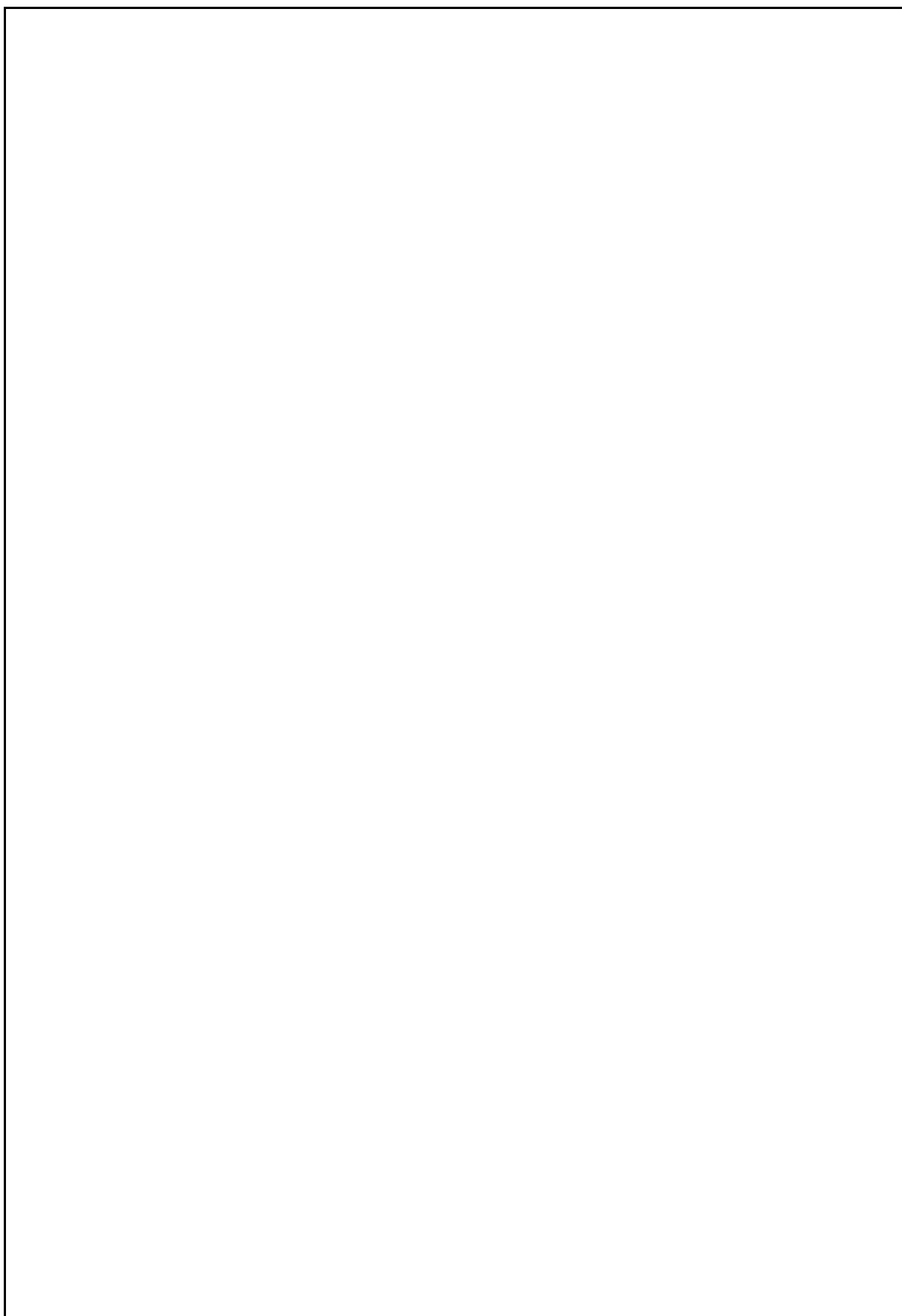


Poster Requirements:

Your poster must use the following subheadings and use the key words



1. **What are the features of positive relationships?** trust, mutual respect, boundaries, consent, equality, kindness, owning actions, independence, fun.
2. **What do unhealthy relationships look like?** love bombing, manipulation, bullying, cyberbullying, domestic abuse, anxiety
3. **Consequences: What are the consequences of unhealthy relationships?** self-esteem, peer pressure, choices, social anxiety, mental health
4. **Conflict: How can someone resolve conflict well? What does that look like?** listening, communication, empathy, collaboration, compromise, reflection & self-awareness and resolution
5. **Support: Where can we go for help** if conflict is unsolved, or we have worries about dealing with it or unhealthy relationships? Support at school, Childline, The Mix, Let Me Know, Barnardo's
6. **Visual:** Include a clear drawing or diagram representing health, protection, or testing



Year 8 into Year 9 RE: The Big Questions

Belief, ethics and big questions: How can religious teachings be a guide in people's lives?

Task 1: Below there are four statements that you may **agree** or **disagree** with. You should explain your viewpoint clearly, ensuring that you state whether you 'strongly agree', 'agree', 'disagree' or 'strongly disagree'

Challenge: include views from two different religions (Christianity, Judaism, Islam, Sikhism or Buddhism)

A "Religious people are more likely to behave morally because they follow rules from God."

B "You don't need religion to be a good person. People can be moral without believing in God."

C "All religions basically teach the same thing, so they are all just different paths to the same truth."

D "Religious rules are outdated and don't help people in modern life anymore."

Year 8 into Year 9 RE: The Big Questions

Task 2: Write a short speech answering the question: **"Can a person believe in both God and evolution?"**

In your response you should:

- Explain what evolution is.
- Give one reason why some people think God and evolution cannot both be true.
- Give one reason why some people believe God could have guided evolution.
- State your own opinion and explain why.

[illegible]