

### Year 9

NAME:		
	Form Group:	

### SPRING TERM 1 SUBJECT KNOWLEDGE ORGANISERS

You will definitely enjoy what you've worked hard for—you'll be happy; and things will go well for you

Proverbs 128:2

### YEAR 9 - ART

### Japanese Landscape Art



### **History / Information**

Japanese landscape art, known as **Sansui-ga**, has a long history rooted in harmony with nature. It began around the 7th century, influenced by Chinese art, and became uniquely Japanese over time. Artists often painted mountains, rivers, and trees, focusing on balance and simplicity. Traditional techniques used ink on paper or silk, with soft, flowing brushstrokes. The Edo period (1603–1868) saw a rise in **ukiyo-e** prints (woodblock printing), where artists like Hokusai created famous works like *The Great Wave*. Japanese landscape art reflects the country's respect for nature and captures both real and imagined scenes, often symbolizing peace and spiritual connection to the world.

### **Key Words**

- 1. Ink Wash / Sumi-e A painting method using diluted ink to create soft, flowing tones and natural textures.
- Woodblock Prints / Ukiyo-e Often depicting landscapes, popular during the Edo period.
- Symbolism Using natural elements (like trees, flowers, or mountains) to represent deeper meanings, such as strength or beauty.
- 4. Asymmetry An uneven balance in the artwork, where elements are placed in a way that feels natural and balanced without being perfectly symmetrical.
- Minimalism Focusing on simple, clean designs with few details to create a peaceful, calm feeling.
- **6. Light and Shadow** The careful use of light and dark areas in the artwork to add depth and create mood or atmosphere.
- 7. Horizon Line The line where the sky meets the land or water, often positioned high or low to create a feeling of openness or focus.

### **Japanese Landscape Art Characteristics**

- 1. Nature Focus Emphasis on mountains, rivers, trees, and skies, highlighting the beauty and tranquility of nature.
- 2. Balance and Simplicity Scenes are designed with harmony, often avoiding excessive detail for a peaceful effect.
- 3. Ink Wash (Sumi-e) Use of delicate brushstrokes and ink to create soft, flowing landscapes.
- **4.** Perspective Traditional Japanese landscape art uses flat or simplified perspectives, not realistic depth.
- **5.** Seasonal Themes Often depict different seasons, like cherry blossoms in spring or snowy scenes in winter.
- Symbolism Nature elements often carry symbolic meanings, such as mountains representing strength or trees symbolizing longevity.
- **7. Minimalism** Art tends to focus on key features of a landscape, avoiding clutter.
- **8.** Watercolour and Prints Use of watercolour in traditional scrolls and woodblock prints like ukiyo-e.

### Support

Below is video with more information surrounding Japanese Landscape Art.



Japanese Landscape
Art Brief History

### Research Page Criteria

**Creative Background -** Linking the background to the style of art or making it look similar to the work of the artist.

**Study Piece** - Recreating a piece of artwork as accurately as you can. **Information** - Information about the artist, time period, art style that is written in full sentences and in your own words.

**Title -** A clear and readable title that is creatively displayed in the style of the artist or art style.

**Images of artwork -** Including images of artwork of the art style or artist so that viewers can visually see and understand the artwork you are presenting.

**Opinion** - Explaining and sharing your opinion about the art style, the artist, the idea behind the artwork in your own words.



## Year 9 Data Science (Data Handling)

Data Science is extracting meaning from a data set in order to support decision making

### **Key Terms**

tion Infographic	lly Variable
Visualisation	Anomaly
Correlation	Outlier
Data set	Causation

### Data set

A data set is a collection of facts on a specific topic, stored together in a record, table or database.

Data can be analysed to identify trends and patterns.

Predictions, decisions and conclusions can be made using methods of data analysis

Variables are the pieces of data being collected, specifically data that can change and affect the results of the data analysis.

In data analysis we look for the relationship that one variable has with another E.g Is there a correlation between increasing temperatures and increased rainfall?

### Causation

This is when one variable affects the outcome of another variable

Outlier

This is when a piece of data stands out for being much larger or smaller than the next data point, e.g a class performs much better on a test than they did in the previous test or the next test.

### Anomaly

Data that stands out, usually due to a variable that had not originally been considered in the data.

## Independent Learning Tasks

How can data analysis help a business?

Can you identify any examples of data analysis in our every day life?

Why might a teacher analyse exam data?

s data analysis always accurate? Why?

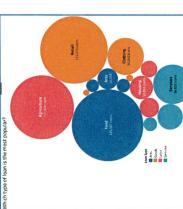
### Data set vs Infographic

Data that is presented as a collection of text can be difficult to analyse.

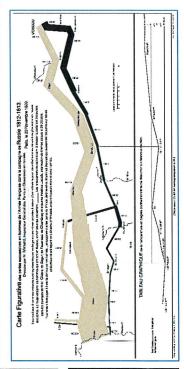
Data presented as an infographic makes it easier to identify key information. This is how we visualise data.

The type of infographic used depends on the data you are using and what you want to find out.

Bar charts, pie charts and bubble charts are all examples of infographics.





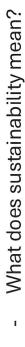




## **Y9 Construction** Knowledge Organiser

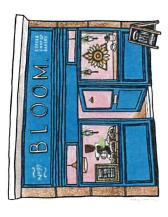
Postcard questions!

What is the difference between all 3 stop buttons around the room?



Which way does an oscillating motion go? Can you think of an example?





What are the four line types we use to draw in 2-point perspective?

Name		C	Н
Example types of	line:	**	
Name		٧	P
Example types of line:			
	Name	Name Example types of line:	Name Example types of line:

### Types of Motion! Scan the QR code to revise some information -



## Skills you will learn & develop

Marking and measuring

Cutting Skills (Coping/Tenon and/or Scroll Saw)

Drilling with the Pillar/Bench Drill

Sanding/Finishing your material

Painting your shop front Safety in the workshop

Theory work & drawing in 2 point perspective

Use of CAD/CAM (laser cutter) in your model

## Name generator!

name for your homework? Use Struggling to come up with a this QR code to help!



come up with an shop out of that! hobby you enjoy dea? Think of a could create a Struggling to and how you



### Year 9 Drama - DNA

KE	YWORDS	PLAY THEME	SYNOPSIS
Cross Cutting	When different scenes are cut or sliced and performed at the same time	Bullying The most obvious character who is bullied is Adam which happens before the beginning of the play and seemingly	DNA was written in 2007 and is set in the early 21st Century. It's
Hierarchy	How people are ranked according to their status	has caused his death. However, it is worth considering who the main bullies are and what types e.g. verbal, mental	about a group of teenagers, who could be
Gang	A group of people, usually friends, who act collaboratively.	and physical.  Gangs	described as a 'gang' who have accidently killed
Story Board	An outline or draft line of a production using pictures and some text	Adam is not only desperate to be part of the gang but consider what the others are prepared to do to stay in the gang.	one of their classmates. When they realise their
Multi Role	When a person plays more than one role	<b>Power</b> There are numerous power struggles	mistake, they try to cover up the crime but
Monologue	A a long speech by one actor in a play	within the play, and it shifts throughout. It is Cathy that ultimately takes on the role as gang leader in the end, consider why?	inadvertently implicate an innocent man.

<b>经验证证</b>		CHARACTERS		
Mark and Jan	<u>Leah</u>	<u>Phil</u>	<u>Lou</u>	<u>John Tate</u>
Mark and Jan act as	Leah is a moral character	Phil is the group's	Lou worries about the	John Tate starts as the
narrators who explain	who worries about the	leader for most of the	group getting caught.	group leader, but his
what is happening. They	groups actions. She is	play. He's quiet,	She follows whoever is	authority is weak, and
are always together and	insecure and seeks Phil's	emotionless, and	in charge	he leaves early in the
help in the cover up.	attention	manipulative		play.
<u>Danny</u>	<u>Richard</u>	<u>Cathy</u>	<u>Brian</u>	<u>Adam</u>
Danny is a selfish	Richard seems unhappy	Cathy is violent and	Brian is the weakest.	Adam is bullied by the
character who is more	about the cover up, but	remorseless about	He's bullied into	group and thought to be
worried about becoming	he goes along with it. He	Adam's death. She	covering up Adam's	dead. He turns out to be
a dentist than Adam's	challenged John Tate's	helps to kill Adam after	death and he suffers a	alive, but Phil has him
wellbeing	leadership.	he reappears	mental breakdown	killed.

WHAT DO YOU THINK?				
Why does Phil not speak with Leah?				
Whose friendship is the most toxic and why?				
Who is the real leader of the gang? What makes you think this?				
If you were part of this gang? What would you have done?!				



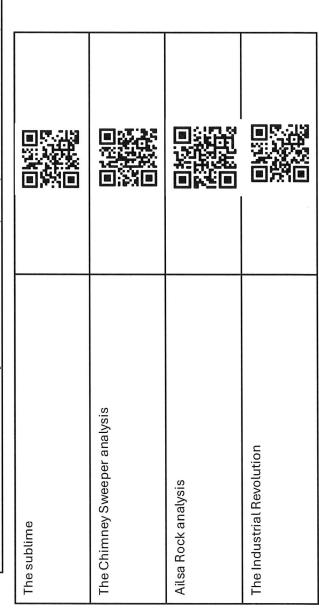
# English Year 9 Knowledge Organiser HT4 - Romantic Poetry

		A.	30		
Key words	Mistreatment	Corruption	Subjugation	Pantheism	Manifestation



### **Unit Overview**

Romanticism was a movement which believed in the importance of freedom and democracy. It was heavily inspired by nature and the idea of liberty to protest injustice and inequalities created by an oppressive hierarchical system.







### **KEYWORDS**

<u>Hydration</u> – The process of replacing water in the body.

<u>Eatwell guide</u> -A healthy eating model showing the types and proportions of foods needed in the diet.

<u>Hazard</u> – A danger or a risk.

Enzymic browning – the reaction that takes place in some foods (apples) when oxygen is present causing the food to turn brown.

<u>Modified</u> – adapted or changed to improve.

<u>Cross Contamination</u>. The transfer of bacteria from one food to another, from humans, animals' other food or equipment.

<u>Heat Transfer</u> – The way heat moves from one area to another through conduction, convection and radiation.



### CLEANING

### Cleaning kills bacteria

- Wash hands before, during and after food preparation
- Wash all worktops, utensils, chopping boards and equipment
- Rinse unwashed salad, fruit and vegetables

### COOKING Cooking kills bacteria Food needs to be heated till

Food needs to be heated til steaming hot with the core temperature reaching

- 60 degrees Celsius for 45 minutes
- 65 degrees Celsius for 10 mins
- 70 degrees Celsius for 2 minutes 75 degrees Celsius
- for 30 seconds
- 80 degrees Celsius for 6 seconds

### CHILLING

### Chilling prevents microbial growth.

- Cool food to below 5 degrees Celsius as quickly as possible and defrost food in the fridge
- Fridge =- 0 degrees 5 degrees
- 5 degrees
   Freezer 15 degrees
  or below
  CROSS CONTAMINATION

Bacteria are transferred from one

- object to another Keep raw and cooked
- food separate
   Never was raw meat
- Keep raw meat and shellfish on the bottom shelf of the fridge

### Support



QR CODE – Eatwell Guide



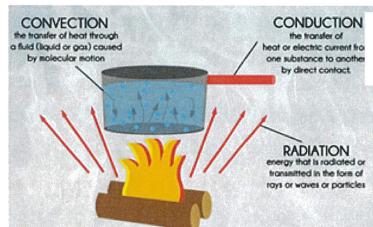
QR CODE - Healthy Eating – modifications video



QR CODE - Health and Safety / cross contamination











QR CODE: Methods of Heat transfer video/website

### WHAT DO YOU THINK?

Why is Food hygiene and safety important in Food Technology? What can poor standards lead to?

What elements make up a healthy diet? Why is this important?

What are the different methods of heat transfer? Can you identify which ones you have used in food technology?





## **Challenges facing Antarctica**

ST. ANNE'S RC. VOLUNTARY ACADEMY

Antarctica is a frozen continent at the South Pole. The average temperature is around -30 °c, but mountainous areas inland are much colder, falling to temperatures of -60 °c. The continent is a *desert* as snow rarely falls.

Antarctica has distinct seasons. During the Antarctic winter, the continent has 24 hours of darkness. More ice forms and the continent doubles in size. In contrast, there are 24 hours of daylight in the Antarctic summer.



Some animal species have adapted to survive the hostile conditions in Antarctica. For example, penguins have flippers to help them to swim and feathers to trap warm air close to their bodies

Learn more by watching Frozen Planet on BBC iPlayer

## Managing Antarctica

## International Antarctic Treaty

Image caption,

The flags of the 12 founding countries of the International Antarctic Treaty

After some countries tried to stake a claim to the continent, the *International Antarctic Treaty* was established in 1959 and signed by 12 countries. More than 50 countries have now signed it. The treaty is an agreement to put aside any *territorial claims* on the continent. It also *establishes* rules that nations must follow. Some of these rules are summarised below.

- Antarctica must be used for peaceful purposes only. All military activities are banned.
- There can be no nuclear
  explosions within Antarctica. The
  disposal of radioactive waste is also
  banned.
- Scientists from any country can carry out research, but any plans and findings must be freely shared.

### Climate change

Melting ice means some animals will lose their habitat. Climate change is affecting Antarctica.

Parts of the continent are experiencing the greatest increases in temperature on the planet, leading to the melting of ice and loss of habitat for species like penguins. Some estimates suggest that sea levels have risen by around 3 mm per year since the 1990s.

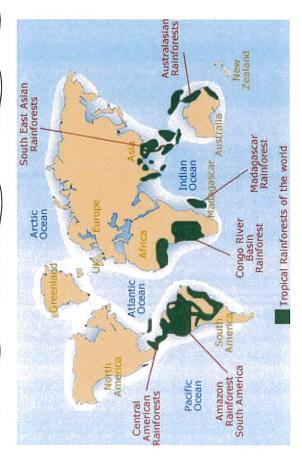
### Resources

Antarctica has many resources. As no single country owns Antarctica, access to these resources could cause conflict. Minerals, such as copper and gold, fossil fuels and fish stocks are all valuable resources that could be exploited. The landscape is also a resource, and so increasing numbers of tourists are visiting Antarctica





## Tropical Rainforests



## Layers of the Rainforest

Science Facts ...

Emergent Layer
Consists of the tallest trees, some birds, and insects.

No animals live here

Canopy Layer

Thickest layer that hosts most flora and fauna fauna

Understory Layer

Consists of young herbs, shrubs, and bushes

Deforestation is when areas of the rainforest are chopped down. Deforestation is happening due to the following reasons:

- soya beans. Large areas are also cleared for cattle ranching, where the land is used Farming: large areas are cleared to grow cash crops (crops sold for profit) such as to plant grass for cows to graze. The cows will then be sold and used for meat.
- **Logging:** rainforests are cut down so that valuable trees like mahogany can be used to make furniture. Other trees are cut down for making paper products.
- Mining: some rainforest is chopped down to build mines to access precious natural resources such as iron ore, copper, tin, and gold.
- results in large parts of the rainforest being destroyed so that machinery can access Road building: the construction of access roads for farmers, loggers and miners natural resources and extract them.
- Hydroelectric power (HEP): this is where energy is generated from fast-flowing water. The creation of HEP stations in the Amazon rainforest has resulted in large areas of forest being flooded to create reservoirs and dams.

Positive Impacts	Negative Impacts
Wood provides fuel, logs, and paper	Animal habitats are destroyed
The logs can then be used to build houses	Machinery used releases carbon emissions which can lead to climate change
The land can be used for cattle ranching, mining, and farming	Trees take years to grow back
Poorer countries depend on the money made by the logging industry	Many plants haven't been discovered yet - they could contain cures to diseases
Deforestation industry provides jobs	When tree roots are removed, it makes the soil loose which can be washed away into rivers

## Managing Deforestation

- Education: promoting the value and benefits of biodiversity and teaching people how to be more sustainable (less damaging).
- Creating National Parks: creating protected areas that can't be used for deforestation.
- Afforestation: planting trees where deforestation has taken place so that animals have a

Darkest, humid layer

Forest Floor

that hosts insects and giant animals

Selective logging: only chopping down certain trees so that most of the trees are left alone.



### History – Year 9



### The Holocaust

**1933** - The Nazis introduce non violent persecution of Jews e.g. boycotting of Jewish businesses.



**1935** - The Nuremberg Laws - Jewish people no longer German citizens and cannot marry non Jews.



**9 November 1938** - Kristallnacht. Night of the Broken Glass - Jewish businesses and synagogues targeted - Jews are killed in the violence.



**1938-1942** - many Jewish people moved to Ghettoes. Einsatzgruppen start murdering Jews and minorities.



**1942** - The Wannsee Conference where the Final Solution was decided.



**1944-45** - Death marches and liberation of Death amps by the Allies.

### **Key Terms:**

Anti-Semitism – hatred of Jewish people.

**Boycott** – to stop buying something or going somewhere to make a point about something.

Persecution – targeting a group for harsh treatment.

Kristallnacht – the violent events of 9 November 1938

where Jewish businesses and synagogues were burnt down.

Many Jewish men were murdered or sent to Concentration camps.

Synagogue – the buildings where Jewish people worship.

Ghetto – a walled part of a City where Jewish people were sent to live in exile. Conditions were extremely harsh.

Einsatzgruppen- squadrons whose purpose was to shoot dead Jews and other undesirable minorities after the Nazis invaded the USSR in 1941 and advanced into Eastern Europe.

**The Final Solution** – the systematic gassing and killing of Jews and other undesirable minorities in Death Camps such as Auschwitz.

**Holocaust** – the name given to the Jewish Genocide by the Nazis.

**Genocide** – an attempt to kill an entire race – in this case all of the Jews in Europe.

**Aryans** – the German so called 'Master Race' characterised by having blonde hair and blue eyes.

**Untermenschen** – German for 'sub human' – used to describe Jewish people and other undesirable minorities such as Blacks, homosexuals, gypsies and disabled.



Where can I find out more?

The Story: In the 1933 the Nazis took charge of Germany and began to persecute Jewish people and other 'undesirable' minorities. This persecution started off in a non violent manner – for example with the boycotting of Jewish businesses. However, it grew to be more sinister and violent with turning points in 1935 (Nuremberg Laws) and 1938 (KristallInacht). After the outbreak of WW2, the Nazis invaded more parts of Europe to conquer territory and with that territory came a higher number of Jewish people. Getting rid of these Jews and other minorities became what the Nazis called 'The Final Solution'. Death camps were built where Jews were systematically gassed. Over 6 million Jews were murdered in this way.



Using Maths and Dedu percentages money ction

Dedu ction

Rotation and Pythagoras' Translation Theorem

Enlarge ment

### Keywords

Parallel: two straight lines that never meet with the same gradient

Perpendicular: two straight lines that meet at 90° Transversal: a line that crosses at least two other lines.

Conjecture: a statement that might be true but is not

proven.

Polygon: a 2D shape made from straight edges.

Counterexample: an example that disproves a statement

### Keywords

Percent: parts per 100 — written using the / symbol

**Decimal:** a number in our base 10 number system. Numbers to the right of the decimal place are called decimals.

Fraction: a fraction represents how many parts of a whole value you have.

Equivalent: of equal value. Reduce: to make smaller in value.

Increase by 12%

Multiplier

More than I

6 6 6 6 6

**Growth:** to increase / to grow. Multiplier: the number you are multiplying by.

**Profit**: the income take away any expenses/ costs.

11

11

П

Balance: the amount of money in a bank account

Expense: a cost/outgoing.

Deposit: an initial payment (often a way of securing an item you will later pay for)

**Multiplier**: a number you are multiplying by (Multiplier more than 1 = increasing, less than 1 = decreasing)

Increase

Per Onnum: each year

Decrease

42%

Currency: the type of money a country uses.

Percentage Increase/Decrease (

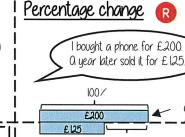
100%

Decrease by 58%

Multiplier

Less than I

Unitary: one — the cost of one.



**All** values of change compare

to the ORIGINAL

value

×100

Percentage loss

### × 100 = 37.5% Difference in values

Original value



Percentage profit

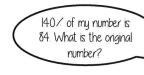
Money made (profit value)

36000 × 100 = 20%

### 100 - 0.58 = 0.42 Reverse Percentages

40% of my number is 16. What am I thinking of?

Original Number (100%)



100%

Original Number (100%)

Money 300

250

200

150

|00/ + |2/ = |12/

100 + 0.12 = 1.12

16

40% = 16 10%-4 100 % = 40 Try to scale down to 10% or 1% and then scale back up to 100%

84

140% = 84 10%-6

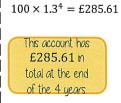
100% = 60

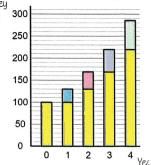
### Compound Interest

Interest is added to the current value of investment at the end of each year so the next year's interest is greater.

### Principal amount ×Multiplier Years

eg Invest £ 100 at 30% compound interest for 4 years





### Simple Interest

For each year of investment the interest remains the same.

Principal amount ×Interest Rate × Years

Principal amount is the amount invested in the account e.g. Invest £100 at 30% simple interest for 4 years

=£120

This account earned £120 interest Ot the end of year 4 they have £220

50

### Songwriting

### Support

How to compose a chord pattern



How to compose a melody



### **Melodic Movement**

- Conjunct

  Melodies which move mainly by step or use notes which are next to or close to one another.
- Disjunct
   Melodies which move mainly by leap or use notes which are not next to or close to one another.
- Range

   The distance between the lowest and highest pitched notes in a melody.



T	• •	•••	WW.7	<b>3</b> 7		***
I	ii	iii	IV	$\mathbf{V}$	vi	viio
C	Dm	Em	F	G	Am	Bo
G	Am	Bm	C	D	Em	F#O
D	Em	F#m	G	A	Bm	C#º
A	Bm	C#m	D	E	F#m	G#o
E	F#m	G#m	A	В	C#m	D#o
В	C#m	D#m	E	F#	G#m	A#O
F#	G#m	A#m	В	C#	D#m	E#o
Gb	Abm	Bbm	Cb	$D^{\flat}$	Ebm	<sub>Eo</sub>
Db	Ebm	Fm	Gb	Ab	Bbm	Co
Ab	Bbm	Cm	Db	Εb	Fm	$G^{o}$
Eb	Fm	Gm	Αb	Bb	Cm	Do
Bb	Cm	Dm	Eb	F	Gm	Ao
F	Gm	Am	Bb	C	Dm	Eo

### **Key Words**

- Lyrics The words of a song, usually consisting of verses and a chorus.
- Hook A 'musical hook' is usually the 'catchy bit' of the song that you will remember. It is often short and used and repeated in different places throughout the piece. Hooks can be either melodic, rhythmic or verbal/lyrical.
- Riff A repeated musical pattern often used in the introduction and instrumental breaks in a song or piece of music. Riffs can be rhythmic, melodic or lyrical, short and repeated.
- Melody The main tune of the song often sung by the lead singer.
- Counter-Melody An 'extra' melody often performed 'on top of' the main melody that 'fits' with it a descant or instrumental solo.
   Texture The layers that make up a song e.g., Melody, Counter- Melody, Hooks/Riffs, Chords, Accompaniment, Bass Line.

### **Structure**

How the song is divided up into sections.

- Introduction often shortened to 'intro', the first section of a song which sets the mood of the song and is sometimes, but not always, an instrumental section using the song's chord pattern.
- Verses Verses introduce the song's theme and have the same melody but different lyrics for each verse which helps develop the song's story.
- Link a optional short section often used to join different parts of a song together.
- Pre-chorus an optional section of music that occurs before the chorus which helps the music move forward and "prepare" for what is to come.
- Chorus occurs several times within a song and contains the most memorable hook. The chorus relays the message of the song and is repeated with the same melody and lyrics each time it is heard. In popular songs, the chorus is often repeated several times towards the end of the song.
- Middle 8/Bridge— a section (often 8 bars in length) that provides contrasting musical material often featuring an instrumental or vocal solo using new musical material allowing the performer to display their technical skill on their instrument or voice.
- Coda/Outro

   The final section of a popular song which brings it to an end (Coda is Italian for "tail"!)



### PE Knowledge Organiser- HT3 Badminton

### **KEYWORDS**

Smash- Hit with power and speed downward into the opponent's court.

**Backhand**- *Hit with the back of the hand leading.* 

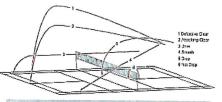
Overhead Clear- Defensive shot allowing time to recover by moving their opponent and increasing the amount of time the shuttle is in the air.

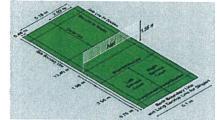
Baseline- Back boundary line at each end of the court, parallel to the net,

**Service Line**- The first horizontal line on each side of the court, closest to the net.

**Drop Shot**- Hit the shuttle downwards aiming for it to just go over the net.

Accuracy- The ability to control movement in a given direction or at a given intensity.





### **Unit Overview**

**Grip and ready position:** To be able to demonstrate & use the correct grip and ready position.

forehand clear: The forehand clear shot enables players to move their opponent to the back of the court. This will create space in the mid and front court to exploit and provide time for the player to return to their base position. forehand drive: The forehand drive is an attacking shot that is usually played from the sides of the court when the shuttlecock has fallen too low for it to be returned with a smash.

Forehand Drop shot: To be able to outwit opponents using simple drop shot. Teaching points; deception, low over net & use of angles. Forehand Smash: To understand the importance of movement and preparation for an effective smash. Teaching points: Shuttle in front of head, Snap wrist, Aim towards ground Basic Serve: The badminton serve is the shot selected to begin the point. The serve must be hit from behind the service line and travel diagonally from one side of the court into the opposite service box.

		SUPPORT		
Four types of service	Overhead Clear Tutorial	Single Rules	Doubles Rules	

### WHAT DO YOU THINK?

What is the best and most accurate way to perform a forehand shot in badminton?





How does footwork benefit a performer in Badminton?

How can I use different tactics to develop my badminton game?







### PE Knowledge Organiser- HT3 Netball

### **KEYWORDS**

Accuracy- the ability to perform movements with skill and precision.

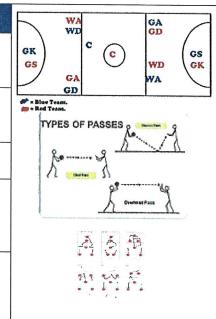
Co-ordination- the ability to use two or more body parts together

Agility- the ability to change direction at speed

Man to man marking- each player is assigned a player to defend and track all their movements.

Rebound- a player attempts to score a goal by shooting but the ball hits the goalposts and bounces back into play.

Centre pass- The first centre pass within the centre circle of the court is decided between the two captains by the toss of a coin. The centre passes then alternate between the teams, regardless of which team has scored. Every time there is a goal, the ball returns to the centre where the centre position passes the ball.



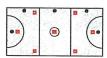
	Unit Over	view
Rule	Explanation	Consequence
Obstruction	Standing closer than 3ft	Penalty pass, stand by opponent's side
Contact	Contacting opponent	Penalty pass, stand by opponent's side
Footwork	Re-grounding landing foot when in possession	Free pass
Replaying the ball	Bouncing ball or picking up 'lost' ball	Free pass
Holding	Holding the ball for more than 3 seconds	Free pass
Offside	A player entering an area they aren't permitted to	Free pass from off- side infringement
Over-a- third	Ball passing over two transverse lines	Free pass from second line
Breaking	Moving into centre third at centre pass before whistle	Free pass from place of infringement

		SUPPORT		的海滨
Four types of service	Overhead Clear Tutorial	Single Rules	Doubles Rules	

### WHAT DO YOU THINK?

How would I be able to lose my defender when trying to move into space?

Think about the 7 different positions in netball and who they would be marking.



How do I know what pass best suits my situation?



### PE Knowledge Organiser- HT3 Rugby

### **KEYWORDS**

Ruck- A ruck is a phase of play where one or more players from each team, who are on their feet, in physical contact, close around the ball on the ground.

Scrum- a means of restarting play after a stoppage which has been caused by a minor infringement of the Laws (for example, a forward pass or knock-on)

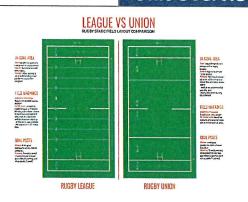
Lineout- a means of restarting play after the ball has gone into touch (off the field of play at the side).

Conversion- If a team scores a try, they have an opportunity to convert it for two further points by kicking the ball between the posts and above the crossbar.

Drop kick- A drop kick is when a player kicks the ball from hand and the ball touches the ground between being dropped and kicked. If a drop kick goes through a goal then it results in a drop goal.

High-tackle- A high tackle (or head-high tackle) is a form of tackle where the tackler grasps the ball carrier above the line of the shoulders (most commonly around the neck or at the line of the chin and jaw).

### **Unit Overview**



Tag rugby- introduction of contact within this sport as well as passing, moving, dribbling and eventually kicking.

Introducing the difference in playing style between rugby union and rugby league.

Demonstrating knowledge and understanding of rules and strategies within the game to be able to perform effectively.

### Rugby Positions Rugby passing Rugby tackling Rugby sidestep

### WHAT DO YOU THINK?

Can you name any specific positions in a rugby team? E.g. scrum half.

What components of fitness would be most beneficial to a winger in rugby?

What are the main differences between rugby league and rugby union?



# Year 9 - Relationships and Society

## Knowledge Organiser

## RELIGIOUS EDUCATION DEPARTMENT

Adultery	A sexual act between a married person and someone other than their marriage partner.
Civil partnership	A legal ceremony giving a homosexual couple the same legal rights as husband and wife.
Cohabitation	Living together without being married.
Contraception	Intentionally preventing preg- nancy from occurring
Faithfulness	Staying with your marriage part- ner and having sex only with
Homosexuality	Sexual attraction to the same
Nuclear family	Mother, father and children living as a unit.
Pre-marital sex	Sex before marriage.
Procreation	Making a new life.
Promiscuity	Having sex with a number of partners without commitment.
Re-constituted family	Where two sets of children (stepbrothers and stepsisters) become one family when their divorced parents marry each
Re-marriage	Marrying again after being di-

### **Changing attitudes:**

In the UK in the 1960s it was would not have sex until they because homosexual sex was for life; most families would consist of husband, wife and expected that young people their children; homosexuals were married; most people would not be seen in public most marriages would last church by the age of 25; would be married in the a criminal offence.

### Marriage:

The Catholic purpose of marriage is so that:

- a couple can have a lifelong relationship of love and faithfulness.
- have the support and com-So that the couple can fort of each other
- For the procreation of
- For bringing up a Christian

vorced from a previous marriage.

## Key Knowledge:

someone legally gets a divorce The Catholic Church does not allow divorce. Therefore if they cannot remarry in the Catholic church. Some other Christians will alhas broken down. If someone must talk to the priest / minsure they are sure this time. Christian churches will allow marriage didn't last to make low divorce if the marriage legally gets a divorce some ister about why their first them to remarry but they

portant thing in their lives too. Most non-religious people see their family as the most im-

Most non-religious people have just as good a family life as religious people.

Non-religious families respect forcing them to take part in their children more by not

ence to how much parents love Religion cannot make a differ-

### Non-Catholic Attitudes to contraception:

Almost all non-Catholic Christians believe that all forms of contraception are allowed.

Contraception improves women's

Contraception can allow sex for enjoyment which strengthens a standard of living for families. Contraception can raise the marriage.

Contraception can be used to There is nothing in the Bible about it.

Contraception can combat limit the size of a family

## The Bible on marriage/

woman commits adultery against commits adultery." (Mark 10:11divorce: "A man who divorces band and marries another man woman who divorces her hushis wife and marries another his wife. In the same way, a

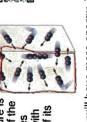
"Any man who divorces his wife tery if he marries some other unfaithfulness, commits adulfor any cause other than her woman." (Matt 19:9) "A man will leave his father and mother and unite with his wife, joined together. (Mark 10:7-9) must separate what God has one"..."No human being then and the two will become

UNIT OVERVIEW	Science Year 9 – Motion and Pressure	edge U	Speed     Motion graphs     Pressure in gases	•Pressure in liquids •Pressure on solids •Turning forces Link to Kerboodle		
Equations:	Speed (m/s) = distance (m) /	time (s)	Pressure $(N/m^2)$ = force $(N)$ / Area $(m^2)$	Moment (Nm) = force (N) x distance $(m)$		
	PRESSURE – A force exerted on an area	MOMENT – The measure of the ability of a force to rotate an object around a pivot	LAW OF MOMENTS – An object is in equilibrium if the clockwise moment equals the anticlockwise moment	<b>LIQUID PRESSURE –</b> The pressure cause by the collision of particles in a liquid	SUPPORT	) monamentum
KEYWORDS	<b>SPEED –</b> A measure of how far something travels in a given time	<b>DISTANCE – TIME GRAPH –</b> A graph showing how far an object travels per unit of time	<b>PIVOT –</b> The point at which a lever or a see-saw balances	GAS PRESSURE – The force exerted by air particles when they collide with a surface		



stance 7





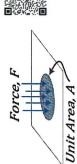
If you heat a gas, the particles will have more energy. This means they will move more quickly and collide with the



pressure acting on pressure is the us from the air Atmospheric

around us.

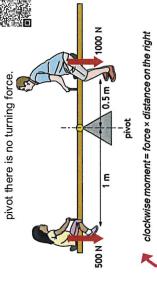
Pressure in Liquids and Solids



The pressure at the bottom of a liquid is bigger than at the top, water pushing down increases because the weight of the with depth.



Moments If the centre of gravity is above the pivot there is no turning force.



 $= 1000 N \times 0.5 m$ = 500 Nm anticlockwise moment =  $force \times distance$  on the left = 500 N × 1 m = 500Nm

WHAT DO YOU THINK?

speed in the first 10 minutes of Using the distance time graph given above – what is Lucy's her journey?

What other units can be used for pressure besides N/m<sup>2</sup>?

How would reducing the volume of a container affect gas pressure?

To calculate the average speed from a distance-time graph you find the distance covered, and divide it by the time taken.

20 25 Time (min)

How do objects float?

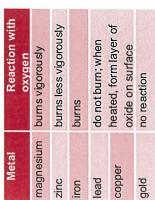
How do snow shoes help you walk on snow?

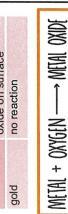
KEYWORDS		Reactivity Series		UNIT OVERVIEW
ACID – A solution with a pH below 7	<b>POLYMER –</b> A substance with very long molecules	Potassium		Science Year 9 - Metals and
<b>CERAMIC</b> – A compound that is hard, strong and has a high meting pint e.g. a metal silicate	REACTIVITY – A measure of how readily a substance undergoes a chemical reaction	Sodium Lithium Calcium Magnesium	回音器器型 Iron is more reactive than	Other Materials Knowledge Understanding Equipped In this unit you will learn:
COMPOSITE – A mixture of material with properties that are a combination of the materials in it	METAL – elements on the left of the periodic table. They are good conductors of electricity and energy	Increasing Carbon reactivity Zinc Iron	copper so displacement happens:	Metals and acids     Metals and oxygen     The reactivity series     Metal displacement reactions
<b>DISPLACEMENT REACTION –</b> A reaction where a more reactive metal displaces a less reactive metal	STATE SYMBOL – A symbol that represents states of matter (s) solid, (l) liquid and (g) gas or (aq) aqueous, a substance where water is the solvent.	Hydrogen Copper Silver Gold	copper sulfate + iron → copper + iron sulfate	Extracting metals O Ceramics Link to Composites Kerboodle O Composites Compos

### SUPPORT

Metal Extraction







JOIND THIN ALL

## Metals and Acid



hydrochloric acid, sulfuric acid, The three main acids are and nitric acid.

copper + hydrochloric acid → copper chloride + hydrogen

iron + sulfuric acid → iron sulfate + hydrogen

+H, GAS

magnesium + nitric acid → magnesium nitrate + hydrogen

metal that it is worth An ore is a rock that carbon Extracted by electrolysis contains enough Extracted by reduction More reactive than Less reactive than extracting. carbon

Ceramics, Polymers and Composites. Earthenware 





water, acids, or

not react with Ceramics do





Very unreactive Found in their native state

Composites have properties

that are a combination of

materials that are in it. the properties of the

> Would the displacement reaction below occur? Explain your answer calcium sulfate + zinc → calcium + zinc sulfate

it's uses?

## WHAT DO YOU THINK?

What are the products of metal and water reactions?

What do the terms reduction and oxidation mean?

What are the products of the reaction between zinc and hydrochloric acid?

the properties make it suitable for What properties does the natural polymer wool have and how do

## Los trabajos / Los empleos

el / la dependiente/a el/ la peluquero/a el / la limpiador/a el / la jardinero/a el/ la camarero/a el / la cocinero/a el/ la esteticista

el / la recepcionista el / la enfermero/a el / la abogado/a el / la periodista el / la cantante el / la policía el / la taxista

policeman axi driver mechanic designer awyer singer nurse

> el / la mecánico/a el / la diseñador/a

sales assistant receptionist peautician gardener ournalist cleaner chef

Spanish Year 9 Term 2 Key phrases for all units World of Work Creo que/ Pienso que (No) Me gustaría ser No me gusta (nada) Me gusta (mucho) En mi opinión Tengo que Quiero ser (No) Soy Voy a vaiter / waitress nairdresser





## En qué consiste tu trabajo?

vender productos en la tienda cortar el pelo a los clientes impiar habitaciones cuidar las plantas hacer manicuras preparar comida servir la comida

ayudar a los clientes contestar al teléfono

sell products in the shop look after the plants cut customers' hair answer the phone help customers do manicures prepare food clean rooms serve food



¿Cómo es tu jefe? / ¿Cómo son los clientes?

organizado/a

nteligente

esponsable

paciente

ndependiente

creativo/a

¿Cómo es tu trabajo? / ¿Cómo eres?

would (not) like to be

am going to want to be am (not)

don't like it (at all) I think that I like it (a lot) In my opinion

have to



ambitious creative polite rude

maleducado/a

sducado/a

interesante estresante

repetitivo

ambicioso/a

ndependent esponsable organised ntelligent sociable patient erious

### ¿Cómo va a ser tu futuro?

ST. ANNE'S
RC. VOLUNTARY ACADEMY

Practise

hacer un trabajo interesante hacer un trabajo creativo nacer un trabajo manual trabajar en una oficina trabajar con animales ganar mucho dinero vivir en el extranjero trabajar al aire libre trabajar en equipo trabajar con niños ir a la universidad ser voluntario/a trabajar solo/a viajar (mucho) En el futuro... ser famoso/a tener hijos estudiar

va a ser fenomenal va a ser flipante va a ser genial

to work in the open air do an interesting job to work with children to work with animals to work in an office to do a creative job to do a manual job earn lots of money to work in a team go to university be a volunteer In the future... to work alone have children travel (a lot) be famous live abroad study

it is going to be great it is going to be awesome it is going to be fantastic

### Describe tu trabajo

What qualities do you have to have? Why did you decide to be a ...? What do you do for a living? ¿Cómo es un día de trabajo típico? What is a typical day like? You have to be... I decided to be In my job... I studied ¿Qué cualidades tienes que tener? Por qué decidiste ser..? En qué trabajas? lenes que ser... En mi trabajo... Decidí ser Estudié

What are your ambitions?

Cuáles son tus ambiciones?

ard-working

rabajador/a

My colleagues are (not) nice

Mis compañeros (no) son simpáticos

Los clientes son exigentes

Mi jefe/a (no) es muy educado/a

The clients are demanding

My boss is (not) very polite

sociable serio/a



### **KEYWORDS**

Fabrics-Are made up of yarns and yarn is made up of fibres.

Fibres-A material in a thin and continuous strand.

Man made/Natural made.

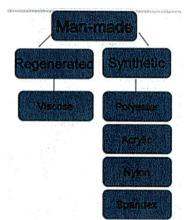
Synthetic or non-synthetic-If something is man made, it isn't natural and can't be found in the world around us.

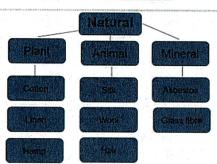
Analysing (An existing product)

Sew on the spot/tie off

Seam allowance-The area between sewing and the raw cut of the fabric. Properties and uses of fibres-le. Cotton is strong and easy to care for, making it useful to use when making clothes.

### Year 9 Knowledge Organiser-Textiles.





### **Unit Overview**

Create a drawstring bag, adding additional features such as logos, zips, pockets etc.

You will use the running stitch or the blanket stitch to hand sew your work.

The bag must be aimed at a particular target audience.



SUPPORT	
Textiles and materials	SCAN ME
Sources and origins of fabrics and materials	SCAN ME
Synthetic Fibres   Types, Properties and Uses	

### WHAT DO YOU THINK?

Can you identify which material is the best one to use for a particular product?

Do you understand the process of stopping your work from unravelling?

Which stitch would work best for this project and why?