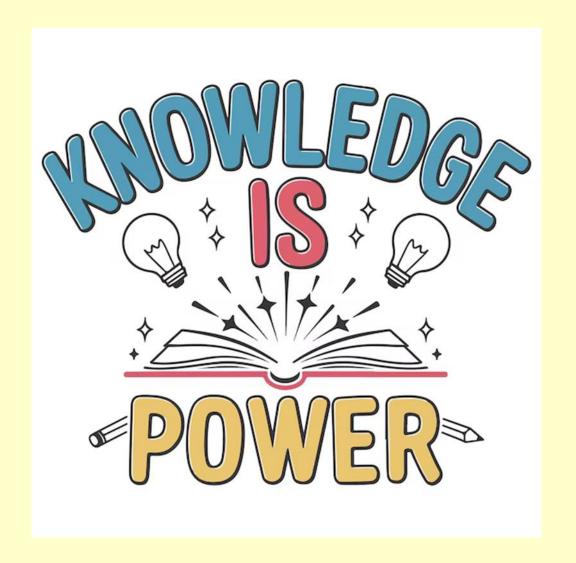
Open
Academy
Year 7
Knowledge
Organiser

Summer Term 1



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# How to use you Knowledge Organiser: Step by step guide

	Look, Cover, Write, Check	Definitions of Key Words	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
Step 1	Look at and study a specific area of your KO.	Write down the key words and definitions.	Use your KO to condense and write down key facts or information onto flash cards.	Use your KO to create a mini quiz. Write down your questions using your KO.	Create a mind map with all the information you can remember from your KO.	Ask a friend or family member to have the KO or flash cards in their hands.
Step 2	Cover or flip the KO over and write down everything you can remember.	Try not to use your KO to help you.	Add pictures to help support. Then self-quiz using the flash cards. You could write questions on one side, and answers on the other!	Answer the questions and remember to use full sentences.	Check your KO to see if there are any mistakes on your mind map.	They can test you by asking you questions on different sections of your KO.
Step 3	Check what you have written down. Correct any mistakes in green pen and add anything you have missed. Repeat.	Use your green pen to check your work.	Ask a friend or family member to quiz you on the knowledge.	Ask a friend or family member to quiz you using the questions.	Try to make connections, linking the information together.	Write down your answers,

## <u>Year 7 Art – Topic: One and Two-point Perspective</u>

#### **Vocabulary List:**

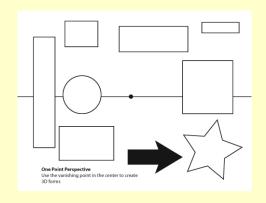
Perspective – A technique used to represent threedimensional objects on a two-dimensional surface to create the illusion of depth and space.

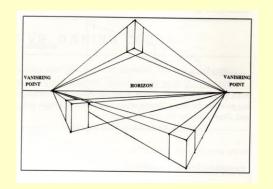
Horizon Line – A horizontal line across the picture; it represents the viewer's eye level and where the sky meets the ground.

Vanishing Point – The point(s) on the horizon line where parallel lines appear to converge in perspective drawing.

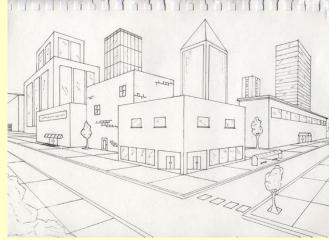
One-Point Perspective – A drawing method that shows how things appear to get smaller as they get further away, converging towards a single vanishing point on the horizon line.

Two-Point Perspective – A more complex method that uses two vanishing points on the horizon line, typically used to draw corner views of objects like buildings.









## Year 7 Drama: Topic 1 – Kneehigh Theatre Company

Kneehigh Theatre Company are theatre practitioners based in Cornwall, England.

They have been a theatre company for over 30 years.

Kneehigh's performances can be performed anywhere: Village halls, Big Tops, quarries, marquees etc.

They usually create their work from myths or storybooks and put their own unique twist using **puppets**, music, gender reversal, song and multirole.

Their performances have HIGH energy and can sometimes be considered a little silly. They definitely don't take themselves too seriously.

**Multirole** is where an actor plays more than one character.

A **theatre practitioner** is someone who produces theatre in a style that is unique to them.





**Task:** Have a look at the pictures above taken from Kneehigh's productions -

Describe what you think is happening.

What techniques that they use can you see in the pictures?

#### **Key Vocabulary**

Physical Theatre is a genre or style of theatre where physical movement is used to tell the story rather than dialogue.

**Body as Props** is where you use your body to create inanimate objects such as tables or chairs.

**Narration** is the telling the story, usually done by a narrator.

**Direct address** is talking directly to the audience.

**Characterisation** is how an actor shows a character to the audience.

Choral Speech is speaking as a group, either at the same time in unison or using canon to emphasise certain words or moments.

**Exaggeration** is making things seem larger than life.

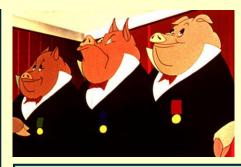
# Year 7 English: Topic – Animal Farm

#### **Summary**

The first of our 'great novels' you'll study at Open Academy, Animal Farm tells the story of a group of animals who overthrow their owners and take charge of their lives. However, with power, the animals find themselves behaving more like the people they had previously despised than they imagined. A famous allegory, these animals' story parallels the communist regime of the early Soviet Union.

#### Why am I learning this?

Over the course of history, fiction and writing has been used to express our anger and opinions about the great political and social questions of our time. When we study texts like Animal Farm, we're encouraging you to be critical about the world around you, challenging unfairness and having the courage to stand up to authority for everyone's benefit.



#### Tasks:

- To clarify the storyline, produce a storyboard tracking key events.
- 2. Read a chapter and **summarise** events..
- 3. Predict the next chapter.
- 4. What **questions** do you have for different characters?

#### Be ambitious:

This year we've introduced a number of critical theories. Consider how this text could be read through the lens of...

- a) Psychoanalysis
  - b) Feminism
  - c) Marxism

#### **Technical Vocabulary**

Anthropomorphism – Giving human characteristics to animals.

Allegory – A story with a moral message behind it.

Context – Background information that helps us understand the text's meaning.

Imagery – Using sensory language and comparisons to create a vivid image.

Metaphor – Representing a thing through something else.

Rhetoric – Using art to be persuasive.

Use these in analysis to show awareness of the author's methods.

Remember to explain their effects.

#### **Ambitious Vocabulary**

Cynical – Doubtful of people's behaviours or motives.

Corruption – The process of losing the purity of your morals.

Inequality – Difference of opportunity or resources.

Oppression – Keeping people under control through force.

Propaganda – Materials used to promote a particular belief.

Hierarchy – A structure that shows or suggests who holds power over others.

Satirical – Using humour to make a political point.

Try to use the ambitious vocabulary in your writing and analysis.

# Year 7 Food Technology - Topic: Nutrition

#### **Nutrients**

Macro nutrients – Needed in <u>large</u> quantities in the diet

- 1. Protein
- 2. Fats
- 3. Carbohydrates

Micronutrients – needed in <u>small</u> quantities in the diet

- 1. Vitamins
- 2. Minerals

#### **Protein**

#### **Food sources**

Animal –beef, pork, lamb, poultry (chicken, turkey, duck), fish, cheese, butter milk Plant – beans, chickpeas, lentils, peas, nuts, seeds, found in smaller amounts in some vegetables such as spinach and broccoli.

#### **Function**

Grown and repair of muscles and cells

#### **Example exam questions**

What is the function of sugary and starchy carbohydrates? (2 marks)

Why is protein especially important for children? (2 marks)

What are the functions of fat? (3 marks) List 5 food sources of plant-based protein (5 marks)

What is the macro nutrient found in the following ingredients – butter, sugar, flour, egg? (4 marks)

#### **Fat**

There are two types of fat, saturated and non-saturated.

Saturated fats are classed as 'unhealthy fats', they are solid at room temperature and are generally animal based.

Unsaturated fats are classed as 'healthier fats' and are liquid or soft at room temperature and come from plant-based sources.

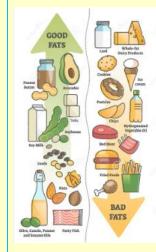
#### **Function**

Keeps us warm (provides insulation), secondary source of energy, protects vital organs and bones.

#### **Food sources**

<u>Animal</u> –beef, chicken skin, processed meat (sausages, salami, pepperoni), bacon, butter, cheese, full fat milk

<u>Plant</u> – vegetable oils (sunflower, olive, rapeseed), avocado, nuts. seeds



#### **Key Vocabulary**

Macro nutrients
Micronutrients
Protein
Fats
Carbohydrates
Vitamins
Minerals
Function
Sources
Types
Saturated
Unsaturated
Plant based
Animal Based

#### **Carbohydrates**

There are two types of carbohydrates, complex and simple. They are also known as starchy (complex) and sugary (simple).

#### **Function**

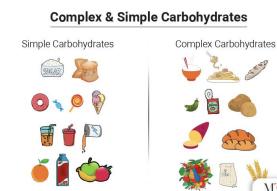
Starchy/complex carbohydrates are digested slowly and provide long term energy.

Sugary/simple carbohydrates are digested slowly and provide short term energy

#### Food sources

<u>Starchy</u> – bread, rice, pasta, potatoes, bagels, oats, flour, cereal and some vegetables.

<u>Simple</u> – fruit, some vegetables, sugar, honey, syrup, sweets, fizzy drinks



# Year 7 Geography – Topic: Industry

#### What is Industry?

This is a human geography topic that focuses on work activities.

There are 4 main sectors of industry that people work within, these are:

- The Primary Sector
- · The Secondary Sector
- · The Tertiary Sector
- The Quaternary Sector

#### **Primary Sector Activities**

This sector is only interested in the extraction of raw materials. This means taking, collecting or removing natural items from the landscape.

Examples are fishing, farming, mining or quarrying and forestry work.

These activities can have negative impacts upon the environment, often changing the look of a landscape or removing things from an ecosystem.





#### **Secondary Sector Activities**

This sector of Industry involves the making, changing, assembling and processing of raw materials, components or ingredients into finished products.

#### Industrialisation

During the Victorian Times Britain experienced an Industrial Revolution whereby factories grew in number and exported products around the world. These included ships, cars, trains, machinery, equipment, weapons, furniture etc.

#### De-Industrialisation

Today many of our products are made in Asian countries where costs are low. Britain has lost much of its Secondary sector and today specialises mainly in smaller 'niche' high-tech or precision engineered products.

#### **Local Industry**

Norwich once produced shoes, books, mustard, textiles and luxury cars.

#### **Location of Industry**

Factory locations rely upon certain factors for success, these include:

- Flat land for expansion
- Good road/rail links for transporting goods and raw materials
- A nearby supply of Labour (workers)
- Power/energy supplies
- Rapid Communications/Internet
- Nearby suppliers

#### **Tertiary Sector**

This sector provides services both within and between all of the different types of industries.

Examples of services provided could include security, finance, insurance or transport.

There are a vast array of jobs from care workers to bankers in this sector and most jobs are here.



#### **Key Vocabulary**

**Primary** Secondary **Tertiary** Quaternary Raw Materials Resource extraction Quarrying Production **Assembly Line** Manufacturing Inputs **Processes Outputs** Industrialisation De-Industrialisation Industry factors **Financial Services** Care sector Education Research Park Science Park

#### **Quaternary Sector**

This sector is concerned with high-tech research and development. Norwich has a University and Hospital research park where crop science, genetic engineering and climate research are undertaken. Workers tend to be highly educated.





## Year 7 History - Topic: Native Americans

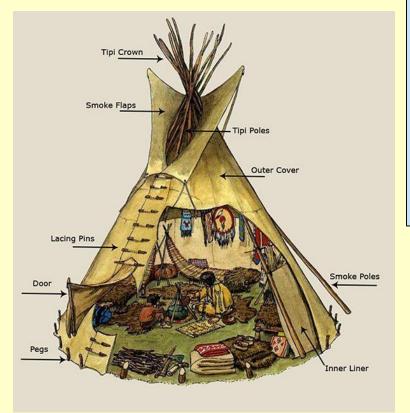
#### **Native Americans**

Before white settlers arrived in North America it was known as 'Turtle Island' and was inhabited by millions of people organised into hundreds of different tribes. Each tribe had their own way of life, including different diets, spiritual beliefs, languages and customs.

Some of the largest tribes were the Sioux, Navajo, Cherokee, Apache and Iroquois. Although up to 90% of the population were killed by white settlers, most tribes still remain today. However most of their original territory was taken from them and some now live in different regions to their ancestors.

TANNED HIDE: Moccasins, Cradles, Winter RAWHIDE: Containers, Shields, Buckets, Moccasin Soles, Belts, Robes, Shirts, Leggings, Belts, Dresses, Pipe Bags, Headdresses, Medicine Bags, Drums, Ropes, Saddles, Stirrups, Knife Cases, Quivers, Tipi Covers, Gun Quirts, Armbands, Bullet Pouches Covers. Dolls MUSCLES: HORNS: Cups. Sinew, Meat Spoons, Ladles, for Jerky Headdresses BRAINS: Decorations, Fly Hide Preparation Brush, Whips SKULL: FAT: Altar at Religious Soap. Ceremonies Cooking Oil TONGUE: Best Part of the Meat BONES: BEARD: Knives, Arrow-Heads, Shovels Ornaments for Scrapers, Winter Sleds, Saddle HOOVES: Weapons Trees, War Clubs, Game Dice Glue, Rattles HAIR: STOMACH: Headdresses. DUNG: Buckets, Cups Saddle Pad Filler. Fuel Dishes, Cooking Pots Pillows, Ropes, Halters

Some tribes lived on the Great Plains (see key words above). These tribes mostly lived nomadically and hunted the Buffalo, of which they used the entire body. For example, they lived in Tipis, a type of tent build from Buffalo hide. Plains tribes also frequently raided each other, and the white settlers once they arrived. It was the Plains tribes who were some of the last to be defeated by the US military around the year 1900. On the right is a diagram showing the many different uses of the Buffalo.



#### Key Vocabulary

Buffalo – Large mammal living in North America. A source of food, clothing, shelter and many others.

Nomadic – A way of life, travelling around with no permanent place to live.

The Great Plains – The

The Great Plains – The middle of the USA, an area covered mainly in grass and home to the Buffalo and many Native American tribes.

**Tribe** – A group of Native Americans made up of multiple family groups. **Tipi** – What many Native Americans live in. Made of Buffalo hide. Similar to a tent.

# Year 7 Unit 11 -Constructing and Measuring

#### What do I need to be able to do?

- Use letter and labelling conventions
- Draw and measure line segments
- Identify parallel and perpendicular lines
- · Recognise types of triangle
- Recognise types of quadrilateral
- · Identify polygons
- · Constructing triangles
- Draw Pie Charts

#### **Vocabulary**

Compass: equipment used to draw arc and circles

**Equilateral Triangle:** a triangle with 3 equal sides and 3 equal angles.

Frequency: the number of times a data value occurs

Isosceles Triangle: a triangle with two lengths and two angles the same

Polygon: a 2D shape made with straight lines

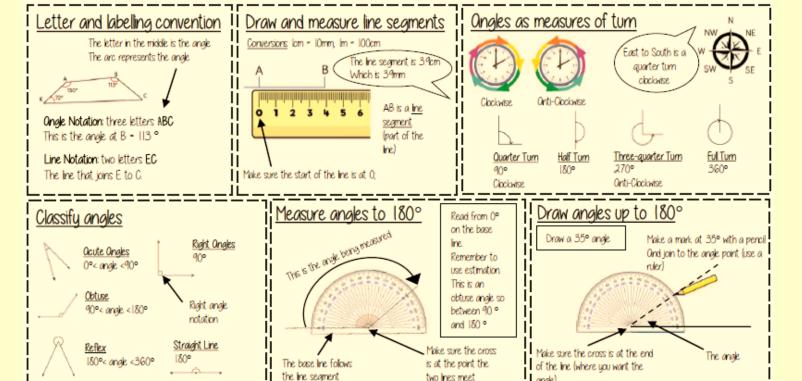
**Protractor:** equipment used to measure the size of an angle. **Radius:** the distance from the edge of the circle to the middle.

Right-angled triangle: a triangle with a 90 degree angle

Rotation: to turn in a given direction

Scalene Triangle: a triangle with all different sides lengths and angles

**Sector:** a part of a circle made by two radii touching the centre



#### Classifying Angles

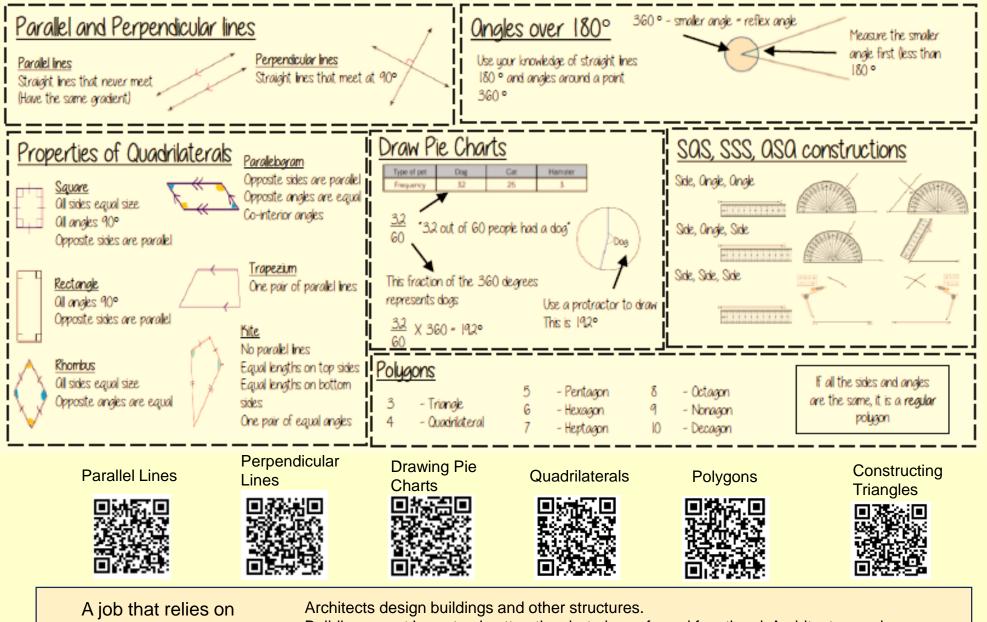


Measuring Angles



**Drawing Angles** 





geometry:

An Architect

Buildings must be not only attractive, but also safe and functional. Architects may be involved in all phases of development, from the first discussion with the client through to construction. Architects sometimes specialize in the design of one type of building, such as hospitals or homes.

## Year 7 Unit 12 – Angles

#### What do I need to be able to do?

- Understand and use angles around a point.
- Understand and use angles on a straight line.
- Understand and use vertically opposite angles
- Know and apply the sum of angles in a triangle.
- Know and apply the sum of angles in a quadrilateral
- · Angles in Parallel Lines

#### **Vocabulary**

Acute Angle: an angle less than 90 degrees

**Equilateral Triangle:** a triangle with 3 equal side lengths and 3 equal angles.

Interior Angles: angles inside a shape

Isosceles Triangle: a triangle with 2 equal lengths and 2 equal angles

Polygon: a 2D shape made up of straight lines.

**Obtuse Angle:** an angle more than 90 degree but less than 180 degrees.

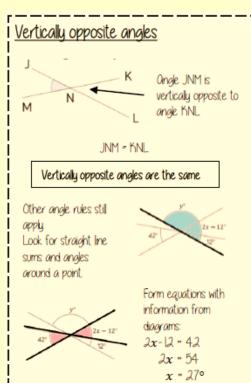
Quadrilateral: a four sided shape

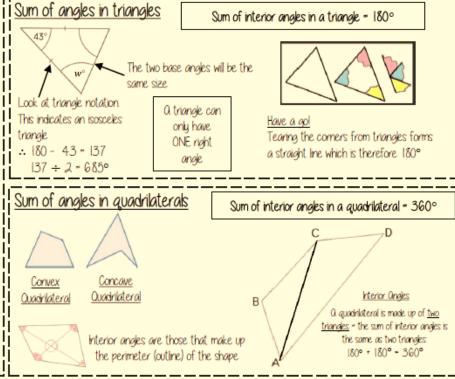
Reflex Angle: an angle more than 180 degrees

Scalene Triangle: a triangle with 3 different lengths and 3 different angles

Sum: total of a set of values

Vertically Opposite: angles formed when two or more straight lines cross at a point.



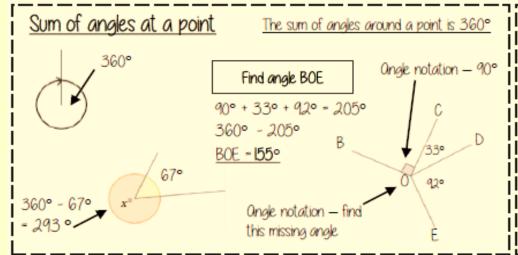


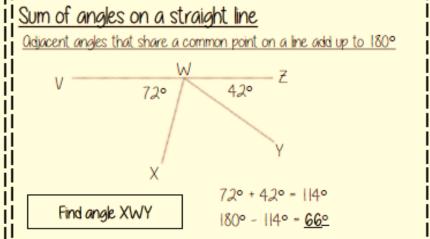
#### Sum of Angles in Triangles

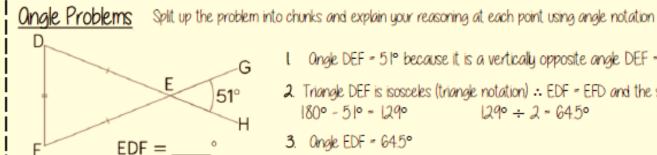


Sum of Angles in Quadrilaterals









I Onale DEF = 51° because it is a vertically opposite anale DEF = GEH

Keep working out clear and notes together

 Triangle DEF is isosceles (triangle notation) : EDF = EFD and the sum of interior angles is 180°. 1800 - 510 = 1290 1290 ÷ 2 = 6450

Onale EDF = 64.5°

#### **Angle Problems**



#### A job that relies on geometry:



#### A Carpenter

Carpenters work with timber depending on the role and experience. They create window frames, doors and floorboards. They also install shelves, cupboards, countertops and assemble fitted or freestanding furniture. Carpenters install roofing timber, staircases, door frames and they erect wooden supports to hold the setting concrete in place during home construction. They often work on tasks such as creating and fitting interiors in public offices and business premises.

## Year 7 Physical Education -Topic: Athletics

#### Running, Sprinting – 100m

- •Explosive **start** from crouch position
- •Drive phase lean forward for first 20m, pumping arms and legs fast.
- •Upright running high knees, relaxed shoulders.
- •Strong finish dip at the line.

#### Rules

False starts result in disqualification.

Must stay in own lane.

#### Running, Distance -800m

This is 2 laps of a normal 400m running track

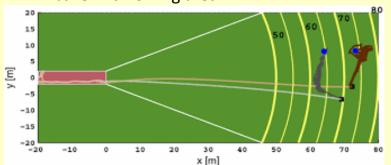
- •Pace yourself don't sprint at the start.
- •Last 200m: Increase speed, sprint finish.

#### Rules

- •Can break into inside lane after 100m.
- •Interference with other runners results in disqualification

# twinkl.com

#### Javelin throwing area



#### Jumping - Long Jump

Run-up – sprint.

Take-off – one-footed jump from the board.

Flight – drive knees up, keep body balanced.

And fall forwards

#### Rules:

Must take off from the take off board and not go over the board

Furthest point back on landing is measured.



#### Throwing – Javelin

- •Grip: Hold javelin at grip point, fingers under.
- •Throw: Strong push from back leg, release at 45° Rules
- •Must throw within the marked sector.
- •Javelin tip must hit ground first.

#### Throwing -Shot Put

- •Grip: Shot rests at base of fingers, not palm.
- •Stance: Start in low position, weight on back leg.
- •Push, not throw! Extend arm, drive forward. Rules:
- •Must stay inside the circle.
- •Shot must land in sector.

#### **Key Vocabulary** Sprinting Speed -The time taken to cover a set distance Reaction time - the time take for an athlete to respond to a stimulus and initiate a response **Distance Running** Pacing -running at a speed to allow you to complete the race. Ina distance event you don't want to start too fast Aerobic endurance - the ability of the cardio respiratory system to provide oxygen to the working muscles Long Jump Shot Javelin Power – a combination of speed and strength

# Year 7 Physical Education – Topic: Cricket

#### **Basic Rules**

- Teams: 11 players per team.
- Overs: Each over consists of 6 balls.
- Batting: Two batters are on the pitch at a time, aiming to score runs.
- Bowling: Bowlers deliver the ball with a straight arm action.
- **Fielding**: Players try to prevent runs and take wickets.

#### **Ways to Get Out**

- Bowled Ball hits the stumps.
- Caught Ball is hit in the air and caught before bouncing.
- LBW (Leg Before Wicket) Ball would hit the stumps but is blocked by the batter's leg.
- Run Out Batter is outside the crease when the stumps are hit.
- Stumped Wicketkeeper removes bails while batter is out of their crease.

#### **Batting Skills**

- Grip: Hands together, "V" shape pointing towards the off-side.
- Stance: Feet shoulder-width apart, knees slightly bent.
- Shots:
- Defensive shot Blocks the ball.
- **Drive** Front foot shot along the ground.
- Pull/Cut Back foot shots for short-pitched deliveries.

## Rules of The Game

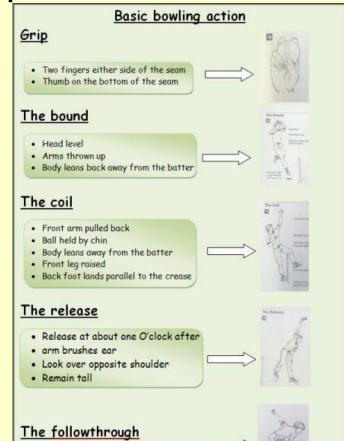


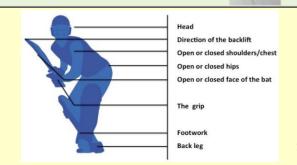
#### **Scoring Runs**

- Single, Two, Three Running between the wickets.
- Four Ball reaches boundary after bouncing.
- **Six** Ball crosses boundary without bouncing.

#### **Key Terms**

- Crease Lines marking where the batter stands.
- Innings Each team's turn to bat.
- All-rounder A player good at batting and bowling.
- Umpire Official who enforces rules.
- Boundary Perimetre of playing area



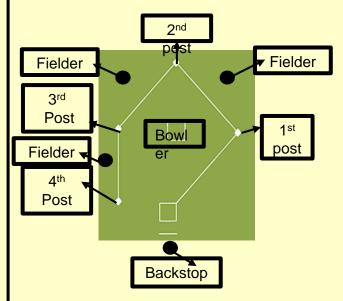


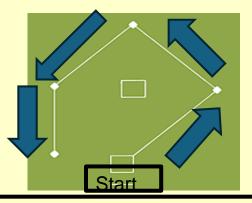
· Follow the ball down the wicket

# Year 7 Physical Education – Topic: Rounders

#### What is Rounders?

- Rounders is a bat and ball game played between two teams.
- It involves batting (hitting the ball with a bat) and running around a circuit of bases to score points.
- Opponents use fielding to prevent the batter running around the circuit.
   Fielding involves catching, tracking and stopping the ball and throwing it to others to stomp the runner out.
- When fielding, it is important to work as a team and have good communication skills.
- In rounders, there are 9 players on a team.





In rounders, the batter starts in the batter box. Once the bowler has bowled the ball, they must run in an anti- clockwise direction until they make it to 4<sup>th</sup> post.

## **Key Vocabulary:**

Bowler
Backstop
Fielder
Rounders
Posts

Rounders position:	What is their role?
Bowler	Stand with one-foot infront of the other. Step forward with the opposite foot to throwing up to stay balanced. Use your non throwing arm to point in the direction that you want the ball to go. The bowler should bowl the ball underarm. Point fingers at target as you release.
Backstop	In rounders, a backstop is the person who stands behind the batter. Their job is to catch any balls that are missed or that get past the batter. This helps to make sure the ball doesn't roll too far away, so the game can keep going without losing the ball. The backstop also tries to stop the batter from running to the next post by getting the ball back to the players quickly.
Fielders	In rounders, fielders are players who stand in different positions around the field to stop the batter from running to the posts. They try to catch the ball or get it to the posts quickly to get the batter out.

## Summer 1

## Year 7 Science: Topic: Energy

Key Vocabulary:
Energy store
Energy transfer
Radiation
Waves
Convection
Conduction
Mechanical
Kinetic
Gravitational
Elastic

Key Question:
Give an
example of
different
scenarios with
these different
energy stores.
Chemical
Kinetic
Gravitaional

Key points:
Energy cannot be created or destroyed it can only be transferred from one store to another.
Clever, Kids, Enjoy, Getting Taught. Is a simple rhyme to remember some of the energy stores.



Key points:
We can
measure the
chemical store
of food by
burning them.
However, we
need to be able
to control a lot
of variables to
ensure it is a
fair test.



Key Vocabulary:
 Efficiency
 Chemical
 Independent
 Dependent
 Control
 Hypothesis
 Reliability

Key Question:
If 50J of energy is released but only 15J is useful.
What is the efficiency of this transfer?
Where does this wasted energy go?

17

# Year 7 Spanish – Topic: ¿Qué hay en tu ciudad?

#### ¿Qué hay en tu ciudad? your town?

Hay... un castillo un centro comercial un estadio un mercado un museo un parque una piscina una plaza un polideportivo un restaurante una tienda una universidad

#### What is there in

There is... castle shopping centre a stadium a market a museum a park a swimming pool a square a sports centre a restaurant a shop a university

#### En... mi barrio mi ciudad mi pueblo No hay museo. museum. No hay nada. unos museos unas tiendas

my neighbourhood my town, my city my village, my town There isn't a

There's nothing. some museums some shops a lot of museums a lot of shops

#### ¿Qué haces en la ciudad? do in town?

Salgo con mis amigos.

friends. Voy...

al cine al parque a la bolera

allev

a la cafetería

a la playa

de compras de paseo

No hago nada.

#### What do you

I go out with my

I go... to the cinema to the park to the bowling

to the café to the beach shopping for a walk I do nothing.

#### ¿Qué hora es?

muchos museos

muchas tiendas

Es la una. Son las dos. Es la una y cinco. Son las dos y diez. Son las tres y cuarto.

three.

Son las cuatro y veinte.

four.

Son las cinco y veinticinco.

past five.

Son las seis y media.

Son las siete menos veinticinco.

seven.

Son las ocho menos veinte.

eight.

Son las nueve menos cuarto. nine.

#### What time is it?

It's one o'clock. It's two o'clock. It's five past one. It's ten past two. It's quarter past

It's twenty past

It's twenty-five

It's half past six. It's twenty-five to

It's twenty to

It's quarter to



Son las diez menos diez. ten.

It's ten to

Son las once menos cinco. It's five to eleven.

Son las doce. It's twelve o'clock.

¿A qué hora? At what time? at one o'clock a la una

a las dos at two o'clock

# Year 7 Wellbeing – Topic: Meditation

#### Mindfulness and Meditation can help most people at times!

Our 'everyday mind' can end up full of worries about things which are no longer true or happening or fretting about what MIGHT happen in the future – even though we know it may not!

The idea is that we are more than these conscious thoughts.

Challenging things happen, we cannot avoid that, but what we think about those challenges is very much up to us

To worry and repeatedly think about difficult things can become suffering - a habit it is all too easy to fall in. The good news however is that we can avoid it! How?

When we notice that we are worrying about things - playing through possible futures like a film in our heads or imagining something going wrong, or even remembering difficult things, unpleasant experiences, we can simply choose to bring ourselves back to the present moment, by thinking about our breathing.

This practice comes with lots of benefits...



How to Practice Mindfulness

Take a seat. Find a place to sit that feels calm and quiet to you.

Set a time limit. If you're just beginning, it can help to choose a short time, such as 5 or 10 minutes.

Notice your body. You can sit or kneel however is comfortable for you. Just make sure you are stable and in a position, you can stay in for a while.

Feel your breath. Follow the sensation of your breath as it goes out and as it goes in.

Notice when your mind has wandered. When you get around to noticing this—in a few seconds, a minute, five minutes—simply return your attention to the breath.

Be kind to your wandering mind. Don't judge yourself or obsess over the content of the thoughts you find yourself lost in. Just come back.

I know it seems way too simple! But this is an ancient practice with traditions in all major religions – including Islam and Christianity!

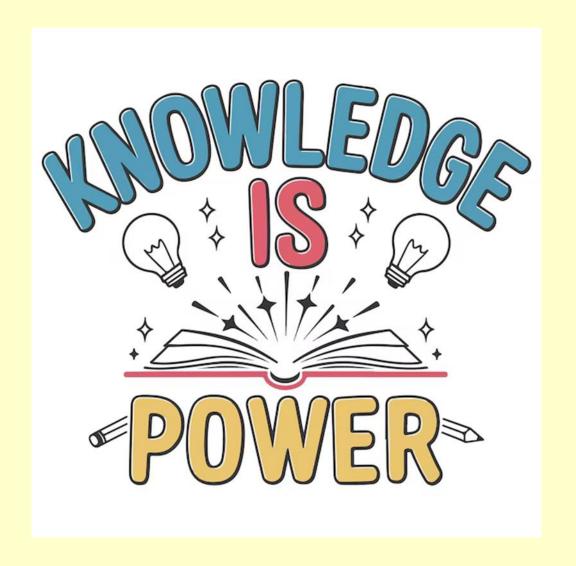
I know that it will seem odd at first. That is your worrying mind trying to stop you taking control over it!

But stick with it – it will help! Regularly practicing will really help!

If you are struggling with worries regularly you might want to get some support – you can start with Kooth – go to their website and sign up – it is easy, and they will help! If you need help on a specific aspect of Mental Health you can always start at the excellent FYI website here: <a href="https://www.fyinorfolk.nhs.uk/">https://www.fyinorfolk.nhs.uk/</a> - it costs nothing to sign up and get help!

Open
Academy
Year 7
Knowledge
Organiser

Summer Term 2



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# How to use you Knowledge Organiser: Step by step guide

	Look, Cover, Write, Check	Definitions of Key Words	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
Step 1	Look at and study a specific area of your KO.	Write down the key words and definitions.	Use your KO to condense and write down key facts or information onto flash cards.	Use your KO to create a mini quiz. Write down your questions using your KO.	Create a mind map with all the information you can remember from your KO.	Ask a friend or family member to have the KO or flash cards in their hands.
Step 2	Cover or flip the KO over and write down everything you can remember.	Try not to use your KO to help you.	Add pictures to help support. Then self-quiz using the flash cards. You could write questions on one side, and answers on the other!	Answer the questions and remember to use full sentences.	Check your KO to see if there are any mistakes on your mind map.	They can test you by asking you questions on different sections of your KO.
Step 3	Check what you have written down. Correct any mistakes in green pen and add anything you have missed. Repeat.	Use your green pen to check your work.	Ask a friend or family member to quiz you on the knowledge.	Ask a friend or family member to quiz you using the questions.	Try to make connections, linking the information together.	Write down your answers,

## <u>Year 7 Art – Topic: One and Two-point Perspective</u>

#### **Vocabulary List:**

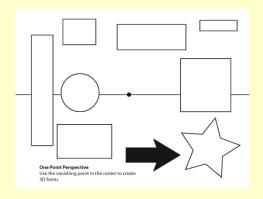
Perspective – A technique used to represent threedimensional objects on a two-dimensional surface to create the illusion of depth and space.

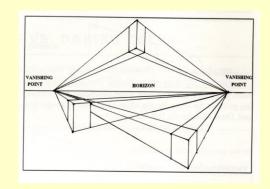
Horizon Line – A horizontal line across the picture; it represents the viewer's eye level and where the sky meets the ground.

Vanishing Point – The point(s) on the horizon line where parallel lines appear to converge in perspective drawing.

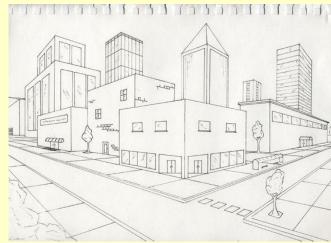
One-Point Perspective – A drawing method that shows how things appear to get smaller as they get further away, converging towards a single vanishing point on the horizon line.

Two-Point Perspective – A more complex method that uses two vanishing points on the horizon line, typically used to draw corner views of objects like buildings.









## Year 7 Drama: Topic 2 – Kneehigh Theatre Company

Kneehigh Theatre Company are theatre practitioners based in Cornwall, England.

They have been a theatre company for over 30 years.

Kneehigh's performances can be performed anywhere: Village halls, Big Tops, quarries, marquees etc.

They usually create their work from myths or storybooks and put their own unique twist using **puppets**, music, gender reversal, song and multirole.

Their performances have HIGH energy and can sometimes be considered a little silly. They definitely don't take themselves too seriously.

**Multirole** is where an actor plays more than one character.

A **theatre practitioner** is someone who produces theatre in a style that is unique to them.





**Task:** Have a look at the pictures above taken from Kneehigh's productions -

Describe what you think is happening.

What techniques that they use can you see in the pictures?

#### **Key Vocabulary**

Physical Theatre is a genre or style of theatre where physical movement is used to tell the story rather than dialogue.

**Body as Props** is where you use your body to create inanimate objects such as tables or chairs.

**Narration** is the telling the story, usually done by a narrator.

**Direct address** is talking directly to the audience.

**Characterisation** is how an actor shows a character to the audience.

Choral Speech is speaking as a group, either at the same time in unison or using canon to emphasise certain words or moments.

**Exaggeration** is making things seem larger than life.

# Year 7 English: Topic – Animal Farm

#### **Summary**

The first of our 'great novels' you'll study at Open Academy, Animal Farm tells the story of a group of animals who overthrow their owners and take charge of their lives. However, with power, the animals find themselves behaving more like the people they had previously despised than they imagined. A famous allegory, these animals' story parallels the communist regime of the early Soviet Union.

#### Why am I learning this?

Over the course of history, fiction and writing has been used to express our anger and opinions about the great political and social questions of our time. When we study texts like Animal Farm, we're encouraging you to be critical about the world around you, challenging unfairness and having the courage to stand up to authority for everyone's benefit.



#### Tasks:

- To clarify the storyline, produce a storyboard tracking key events.
- 2. Read a chapter and **summarise** events...
- 3. Predict the next chapter.
- 4. What **questions** do you have for different characters?

#### Be ambitious:

This year we've introduced a number of critical theories. Consider how this text could be read through the lens of...

- a) Psychoanalysis
  - b) Feminism
  - c) Marxism

#### **Technical Vocabulary**

Anthropomorphism – Giving human characteristics to animals.

Allegory – A story with a moral message behind it.

Context – Background information that helps us understand the text's meaning.

Imagery – Using sensory language and comparisons to create a vivid image.

Metaphor – Representing a thing through something else.

Rhetoric – Using art to be persuasive.

Use these in analysis to show awareness of the author's methods. Remember to explain their effects.

#### **Ambitious Vocabulary**

Cynical – Doubtful of people's behaviours or motives.

Corruption – The process of losing the purity of your morals.

Inequality – Difference of opportunity or resources.

Oppression – Keeping people under control through force.

Propaganda – Materials used to promote a particular belief.

Hierarchy – A structure that shows or suggests who holds power over others.

Satirical – Using humour to make a political point.

Try to use the ambitious vocabulary in your writing and analysis.

# Year 7 English: Topic – Horror

#### **Summary**

To finish off our first year at Open we explore a classic storytelling genre, Horror. Reading a series of short stories and practicing our own creative skills we consider how language and structure can be used to shock and scare the reader.

#### Why am I learning this?

Along with our poetry course, this topic give us the chance to practice and develop our own creative writing skills, specifically how we can use language and structure to create specific effects.

Most of all however, it's our chance to read through a genre that has captivated audiences and readers for generations.

Maybe prepare your best ghost/horror stories ready to share on Year 7 camp.



#### Tasks:

- **1. Re-read** a story. Do you notice anything the second time that helped solve the mystery?
- 2. Read a story and **summarise** events..
- 3. What **questions** do you have for different characters?
  - 4. Re-write the story from a different perspective.

#### Be ambitious:

This year we've introduced a number of critical theories.

Consider how the characters could be read through the lens of...

- a) Psychoanalysis
  - b) Feminism
  - c) Marxism

#### **Technical Vocabulary**

Anthropomorphism – Giving human characteristics to animals.

Context – Background information that helps us understand the text's meaning.

Plot twist – A surprising or unexpected change of direction in the plot, used to create an ending we didn't see.

Pathetic Fallacy – Giving human feelings to non-living things.

Sibilance – Alliteration of 's' sounds. Used to create either a smooth sound or a harsh one.

Use these in analysis to show awareness of the author's methods. Remember to explain their effects.

#### **Ambitious Vocabulary**

Chilling – Creaitng an upsetting or nervous feeling.

Eerie – Creating an unnerving or tense feeling.

Grotesque – Particularly gross or disgusting.
Unnatural.

Ominous – Feeling of danger or obvious threat.

Ghastly – Horrifying, particularly relating to ghosts or supernatural.

Sinister – Serious or severe. Giving the impression of harm.

Supernatural – Unexplained events such as ghosts and vampires.

Try to use the ambitious vocabulary in your writing and analysis.

# Year 7 Food Technology – Topic: The Eatwell Guide

#### The Eatwell guide

The Eatwell guide is a government guide designed to show you the proportions of different foods groups you should eat over a day or more.

<u>Fruit and vegetables</u>: eat 5 portions of fruit and vegetables a day, this should make up 1/3 of your plate a day, fresh, canned dried and fruit juice/smoothies all count, don't exceed 150ml of fruit juice/smoothie a day as it can cause tooth decay, try snacking on fruit over high sugar and fat foods,

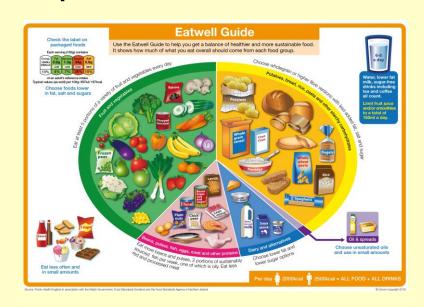
<u>Potatoes</u>, <u>bread</u>, <u>rice</u>, <u>pasta and other starchy</u> <u>carbohydrates</u>: choose non-sugary cereals, leave the skin on potatoes, choose wholemeal options of foods such as bread, rice and pasta.

<u>Oils and spreads</u>: choose unsaturated fats such as vegetable oils and margarine over butter, use in small amounts.

<u>Dairy and alternatives</u>: choose lower fat options such as skimmed milk and low fat and salt cheese, choose low sugar yogurts and add fruit as a natural sweetener.

Beans, pulses, fish, eggs, meat and other proteins: eat more beans and pulses as they are high in fibre and fill you up for longer, cut the visible fat off meat, choose lower fat meat options, eat 2 portions of fish a week.

Water: drink 2-3 litres of water a day, choose lower sugar option drinks.



#### **Key Vocabulary**

Balanced
Carbohydrates
Eatwell guide
Fat
Healthy Eating
Oils and spreads
Proportions
Protein
Saturated fat
Unsaturated fat

#### **Example exam questions**

Why is it important to have a diet based on the Eatwell guide?
Why are sweets, chocolate and crisps not included in the guide?
Why should we base our meals on starchy carbohydrates?
Why is it important to eat 5 portions of fruit and vegetables a day?
List 3 different sources of unsaturated fat.

Explain why is it recommended to use margarine instead of oil.

# Year 7 Geography – Topic: Asia

#### What is Asia?

Asia is the largest continent on Earth. It includes the largest population and the largest and fourth largest countries by areas of Rusia and China.

#### Asia's physical features

Asia is defined by the regions East of the 'Ural' mountains, south of the 'Caucasus' mountains, East of Africa and North of Australia.

#### China

China is a traditional centre of learning and civilisation.

China is the 2<sup>nd</sup> largest country by population and by area in Asia but arguably the most important. It has a number of large cities and a growing economy that trades with the rest of the world. Despite its large population, children are a small proportion of the total population and people are living longer. It has vast areas of wilderness with deserts, mountains and rainforests. China is a rapidly developing country, this means it is advancing with technology but also needs vast amounts of energy which can also damage the environment.





#### **Location of Industry**

Factory locations rely upon certain factors for success, these include:

· Flat land for expansion



#### Japan

After its defeat in WW2 Japan adopted economic growth and rapidly recovered to become a major economy in the world specialising in electronics and engineering. Japan is also a highly traditional country with an ordered society based upon rules, respect and hard work. Japan famously straddles earthquake zones and volcanoes like Mt. Fuji. The largest city on Earth, Tokyo at 32 million people, ¼ of Japan's 124m people. Its population is however falling due to low birth rates, and it has the longest life expectancy on Earth (82 years).

#### India

India is the largest population in Asia at 1.25billion people. It is also a rapidly changing and developing country. India trades with the East (China, Russia etc) and the West (USA/EU etc). Famously it is home to elephants and tigers in its 'jungle' rainforests.

#### Indonesia

Indonesia is a rapidly growing population of 240 million people. It is also home to large areas of threatened tropical rainforest and home to animals like the Orangutan.

#### **Key Vocabulary**

Colonialism **Imperialism** Communism Zionism Arab-Israeli conflict Kashmir dispute Korean peninsula Siberia Himalayas Gobi Desert Yangtze River **Ganges River** Pacific Plate Collision margin Urbanisation Economic growth 'Tiger' economies **Sweatshops** Fossil Fuels

#### **The Middle East**

The middle east includes the ancient holy lands of 3 of the worlds major religions. It is a beautiful land of incredible peoples but has sadly been subjected to wars and conflicts. It could be a center for solar power as well as oil and gas. Middle Eastern cultures are ancient and once were the 'cradle' of peaceful civilisation.





## Year 7 History Topic - The Tudors



#### Henry VII, reigned 1485-1509

Henry VII took the throne by defeating the previous King, Richard III. Henry made efforts to control the barons in England. He taxed them heavily and punished them harshly for disobeying him.

#### Henry VIII, reigned 1509-1547

Determined to have a son of his own, Henry married six different women and had three surviving children. In the 1530s Henry claimed to have become a Protestant and changed the religion of England to Protestant with himself as head of the Church.

#### Edward VI, reigned 1547-1553

Henry VIII's only son and just nine years old when he was crowned King and dead by the age of 15, Edward never really had the chance to rule England. Edward was raised as a Protestant so England became more Protestant during his reign.

#### Mary I, reigned 1553-1558

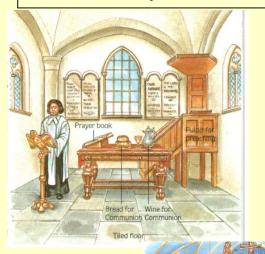
Mary was Henry VIII's eldest daughter and a strong Catholic. Nicknamed 'bloody Mary' she is often remembered for executing many Protestants but was also a strong queen in a difficult time.

#### Elizabeth I, reigned 1558-1603

Elizabeth was Henry VIII's youngest child and a Protestant like her brother. Often remembered as one of England's greatest queens, she continued to make England more Protestant, with increasingly harsh punishments of Catholics who resisted.

#### The Tudors

The Tudors were a family who ruled England between 1485 and 1603. They are remembered for the amount that they changed England. One of the biggest changes they introduced under Henry VIII, Edward VI and Elizabeth I was the English Reformation. This was when England changed from a Catholic country to being a Protestant country.



#### Key Vocabulary

The Reformation - A

process of religious change in early modern Europe, where much of Europe converted from Catholicism to Protestantism Catholicism - A type of Christianity that believes that the Pope is the head of the Church and that the Bible and church services should be in Latin. Protestantism - A type of Christianity that does not believe that the Pope is the head of the Church and that the Bible and church services should be read by people in the own language Henry VIII - King of England between 1509 and 1547. Most famous for his six wives, Henry was also important in making **England a more Protestant** country with himself as head of the English Church Martin Luther - A German Protestant who wrote several important books/articles about religion that helped spread the Protestant religion around Europe 29

# Year 7 Unit 13 - Developing Number Sense

#### What do I need to be able to do?

- Use mental methods for addition and subtraction
- Use mental methods for multiplication and division
- Use factors to simplify calculations
- Use estimation to check calculations
- Use fact families
- Use algebraic facts

#### **Vocabulary**

Associative: when you add or multiply you can do so regardless of how the numbers are grouped.

**Commutative:** changing the order of the operations does not change the result.

Dividend: the number being divided Divisor: the number we divide by.

**Equation:** a mathematical statement with two things that are equal **Expression:** a maths sentence with a minimum of two numbers and at

least one maths operation but no equals sign

Quotient: the result of a division.

#### Multiplying **Decimals**



Dividing **Decimals** 



Reverse **Fractions** 



30

#### Mental methods for addition/subtraction

Oddition is commutative The order of addition does not

Subtraction the order has to stay the same

360 - 147 = 360 - 100 - 40 - 7

- Number lines help for addition and subtraction
- Working in 10's first aids mental addition/subtraction

#### Hental methods for multiplication∕ division



The order of multiplication does not change the result

Partitioning can help multiplication  $24 \times 6 = 20 \times 6 + 4 \times 6$ = 120 + 24

Division is not associative

Chunking the division can help 4000 ÷ 25 "How many 25's in 100" then how many chunks of that in 4000.

#### Mental methods for decimals

change the result

eg x 0.1 = + 10 Multiplying by a decimal < I will make the original value smaller

#### Methods for multiplication $1.2 \times 0.03$

Methods for addition 23+24

 $12 \times 3 = 36$  $12 \times 0.03 = 0.036$ 

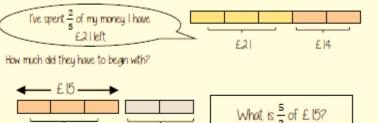
2 + 2 = 4

0.3 + 0.4 = 0.74 + 0.7 = 4.7

12 x 3 = 36 ÷ 10 + 100 ÷ 1000 12 × 0.03 = 0.036 Methods for division  $15 \div 0.05$ Multiply by powers of 10 until the divisor becomes an integer

> 1.5 ÷ 0.05 ×100 ×100  $150 \div 5 = 30$

## 



## Using factors to simplify calculations

30 x 16

10 x 3 x 4 x 4

2x5x3x2x2x2x2

10 x 3 x 2 x 8

16 x 10 x 3

Multiplication is commutative Factors can be multiplied in any order

#### Estimation



#### **Factors**



#### **Number Facts**



## **Estimation**

Estimations are useful — especially when using fractions and decimals to check if your solution is possible.

Most estimations round to I significant figure

Estimations are useful — especially when using fractions and decimals to check if your solution is possible.

210 + 899 < 1200

This is true because even if both numbers were rounded up, they would reach 300 + 900.

> The correct estimation would be 200 + 900 - 1100.

## Number facts

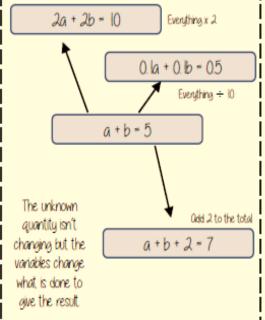
l24 x 5 = 620

For multiplication, each value that is multiplied or divided by powers of 10 needs to happen to the result

620÷ 124 = 50

For division you must consider the impact of the divisor becoming smaller or bigger. Smaller — the answer will be bigger (It is being shared into less parts) Bigger — the answer will be smaller (It is being shared into more parts)

## <u>Olgebraic facts</u>



# A job that relies on number skill:

#### A Stockbroker

A stockbroker is someone who buys and sells stock on the stock exchange. They buy and sell stock, as a normal person cannot walk into the stock exchange for example, and ask to buy stock. They can also advise people the best way to manage their stock.

Key skills for stockbrokers

- •IT and maths skills
- Ambition and determination
- Ability to persuade
- Communication skills
- Strong decision-making skills
- •Ability to work in a high-stress environment
- Very good negotiation skills
- •Ability to build lasting relationships.

# **Year 7 Unit 14 – Sets and Probability**

#### What do I need to be able to do?

- Identify and represent sets
- Interpret and create venn diagrams
- · Understand intersection and union of two sets
- · Generate sample spaces for two events.
- · Calculate probability of a single event.
- · Use the probability scale

#### Vocabulary

Bias: where one outcomes is more likely to happen than another

**Element:** each number belonging to a set

Fair: where all outcomes have the same likelihood of happening

**Intersection:** the overlapping part of a venn diagram

Mutually Exclusive: events that do not occur at the same time

**Probability:** the chance of something happening

Random: something that happens by chances and is unable to be

predicted

Set: A collection of things or numbers

Union: two sets that are joined

# Venn

## Identify and represent sets

The **universal set** has this symbol  $\xi$  — this means EVERYTHING in the Venn diagram is in this set

a set is a collection of things — you write sets inside curly brackets { }

 $\xi$  = {the numbers between 1 and 50 inclusive}

'My sets can include every number between 1 and 50 including those numbers

A = {Square numbers}

A = {1, 4, 9, 16, 25, 36, 49}

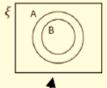
Oil the numbers in set A are square number and between 1 and 50

## Interpret and create Venn diagrams



Mutually exclusive sets The two sets have nothing in common No overlap

Union of sets The two sets have some elements in common — they are placed in the intersection.



All of set B is also in Set a so. the ellipse fits inside the set.

Oround the outside of every Venn diagram will be a box. If an element is not part of any set it is placed outside an ellipse but inside the box

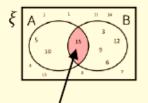
## Intersection of sets

Elements in the intersection are in set A OND set B

The notation for this is  $A \cap B$ 

 $\xi$  = {the numbers between 1 and 15 inclusive}

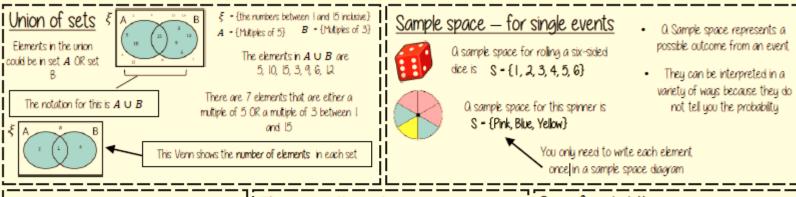
 $A = \{\text{Multiples of 5}\}$   $B = \{\text{Multiples of 3}\}$ 

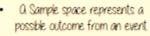


The element in  $A \cap B$  is 15

In this example there is only one number that is both a multiple of 3 and a multiple of 5 between 1 and 15









Sample

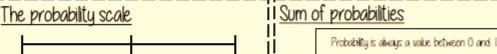
**Space** 

**Probability** 



**Probability** Scale

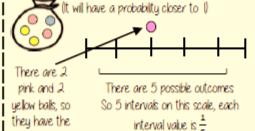




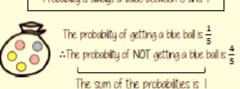
Certain

l or 100%

0 or 0%  $0.5, \frac{1}{2}$  or 50%The more likely an event the further up the probability it will be in comparison to another event



Even chance



The table shows the probability of selecting a type of chocolate

	Dark	Mik	White
	0.15	0.35	
P(v	vhite chocolate)	- 1 - 0.15 - 0.5	35

-05



### A job that relies on probability:

same probabiltu

Impossible

Probability of a single event

Probability can be a fraction, decimal or percentage

value

- 0.40 - 40%

Probability is always a value between 0 and 1

Probabilitu notation

P (event)

Probability - number of times event happens

total number of possible outcomes

◆There are 4 blue sectors

There are 10 sectors

#### A Budget Analyst

Budget Analysts are responsible for analysing budget proposals, determining funding allocations and predicting future financial requirements.

Budget Analysts are well-versed in statistical modeling and are expert mathematicians.

#### **Budget Analyst Requirements:**

- Bachelor's degree in finance, accounting, or related field.
- · Master's degree preferred.
- · Experience managing budgets.
- · Highly analytical mindset.
- Proficiency in data analysis and statistical forecasting.
- Excellent mathematical aptitude.
- Good problem-solving skills.
- Excellent written and verbal communication.
- Exceptional interpersonal skills.
- Attention to detail.

## **Year 7 Unit 15 – Prime Numbers and Proof**

#### What do I need to be able to do?

- Find and use mutliples
- Identify factors of a number
- Recognise and identify prime numbers
- Recognise square and triangular numbers.
- Find common factors including the HCF
- Find common multiples including LCM

#### Vocabulary

**Conjecture:** a statement that might be true but is not proven

**Counter Example:** a special type of examples that proves something wrong.

Factor: whole numbers that multiply to make another number

HCF: highest common factor (biggest factor shared by two numbers)

Integer: a whole number with no decimals involved.

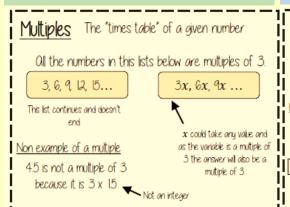
**LCM:** lowest common multiple (the first number in both of the timestables)

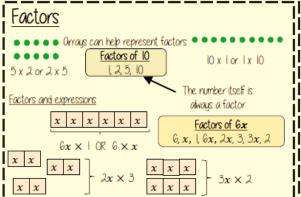
timestables)

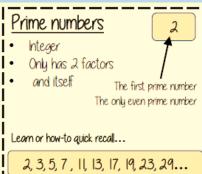
**Multiple:** a number in the timestable of that number. **Prime:** a whole number with only 2 factors, 1 and itself



**Factors** 

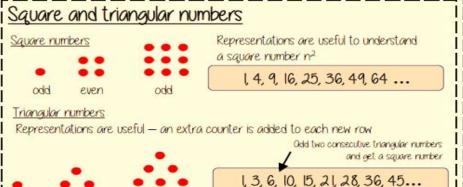


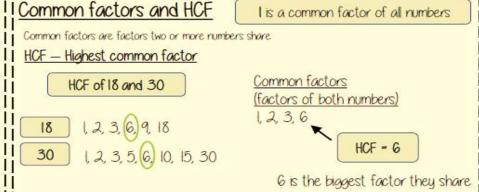


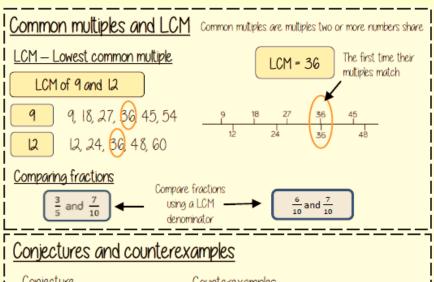


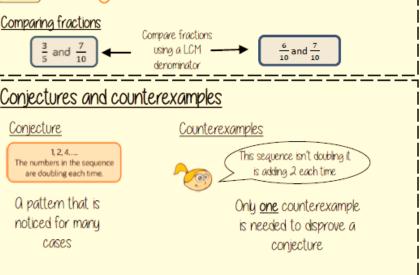


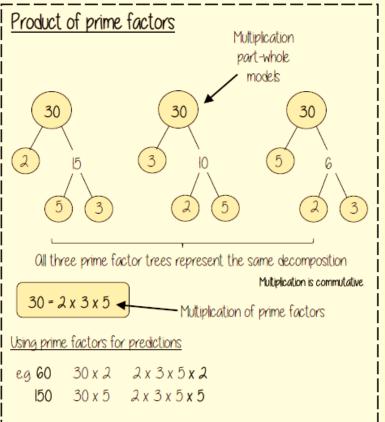


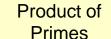














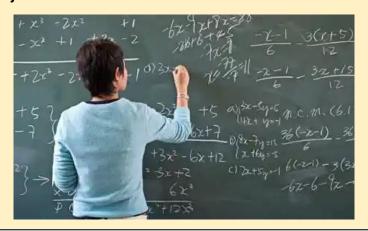
Highest Common Factor



Lowest Common Multiple



#### A job that relies on number skills:



#### A Maths Teacher

Things we love about being a maths teachers:

- Helping young people to achieve and move on to their next steps in life.
- Being able to work with lots of different people.
- Getting to do maths every day and keeping the brain sharp!
- Watching people who work hard be successful.

## Year 7 Physical Education -Topic: Athletics

#### Running, Sprinting – 100m

- •Explosive **start** from crouch position
- •Drive phase lean forward for first 20m, pumping arms and legs fast.
- •Upright running high knees, relaxed shoulders.
- •Strong finish dip at the line.

#### Rules

False starts result in disqualification.

Must stay in own lane.

#### Running, Distance -800m

This is 2 laps of a normal 400m running track

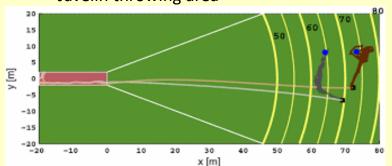
- •Pace yourself don't sprint at the start.
- •Last 200m: Increase speed, sprint finish.

#### Rules

- •Can break into inside lane after 100m.
- •Interference with other runners results in disqualification

# twinkl.com

#### Javelin throwing area



#### Jumping - Long Jump

Run-up – sprint.

Take-off – one-footed jump from the board.

Flight – drive knees up, keep body balanced.

And fall forwards

#### Rules:

Must take off from the take off board and not go over the board

Furthest point back on landing is measured.



#### Throwing – Javelin

- •Grip: Hold javelin at grip point, fingers under.
- •Throw: Strong push from back leg, release at 45° Rules
- •Must throw within the marked sector.
- •Javelin tip must hit ground first.

#### Throwing -Shot Put

- •Grip: Shot rests at base of fingers, not palm.
- •Stance: Start in low position, weight on back leg.
- •Push, not throw! Extend arm, drive forward. Rules:
- •Must stay inside the circle.
- •Shot must land in sector.

**Key Vocabulary** Sprinting Speed -The time taken to cover a set distance Reaction time - the time take for an athlete to respond to a stimulus and initiate a response **Distance Running** Pacing -running at a speed to allow you to complete the race. Ina distance event you don't want to start too fast Aerobic endurance - the ability of the cardio respiratory system to provide oxygen to the working muscles Long Jump Shot Javelin Power – a combination of speed and strength

# Year 7 Physical Education – Topic: Cricket

#### **Basic Rules**

- Teams: 11 players per team.
- Overs: Each over consists of 6 balls.
- Batting: Two batters are on the pitch at a time, aiming to score runs.
- Bowling: Bowlers deliver the ball with a straight arm action.
- Fielding: Players try to prevent runs and take wickets.

#### **Ways to Get Out**

- Bowled Ball hits the stumps.
- Caught Ball is hit in the air and caught before bouncing.
- LBW (Leg Before Wicket) Ball would hit the stumps but is blocked by the batter's leg.
- Run Out Batter is outside the crease when the stumps are hit.
- Stumped Wicketkeeper removes bails while batter is out of their crease.

#### **Batting Skills**

- **Grip**: Hands together, "V" shape pointing towards the off-side.
- Stance: Feet shoulder-width apart, knees slightly bent.
- Shots:
- Defensive shot Blocks the ball.
- Drive Front foot shot along the ground.
- Pull/Cut Back foot shots for short-pitched deliveries.

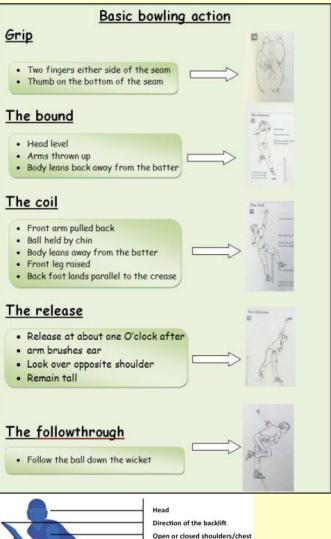
# Rules of The Game

#### **Scoring Runs**

- Single, Two, Three Running between the wickets.
- Four Ball reaches boundary after bouncing.
- **Six** Ball crosses boundary without bouncing.

#### **Key Terms**

- Crease Lines marking where the batter stands.
- Innings Each team's turn to bat.
- All-rounder A player good at batting and bowling.
- Umpire Official who enforces rules.
- Boundary Perimetre of playing area



Open or closed hips

The grip

Footwork

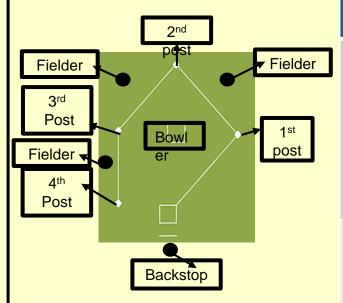
Back leg

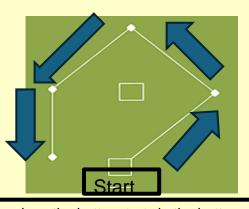
Open or closed face of the bat

# Year 7 Physical Education – Topic: Rounders

#### **What is Rounders?**

- Rounders is a bat and ball game played between two teams.
- It involves batting (hitting the ball with a bat) and running around a circuit of bases to score points.
- Opponents use fielding to prevent the batter running around the circuit.
   Fielding involves catching, tracking and stopping the ball and throwing it to others to stomp the runner out.
- When fielding, it is important to work as a team and have good communication skills.
- In rounders, there are 9 players on a team.





In rounders, the batter starts in the batter box. Once the bowler has bowled the ball, they must run in an anti- clockwise direction until they make it to 4<sup>th</sup> post.

# Key Vocabulary:

Bowler
Backstop
Fielder
Rounders
Posts

Rounders position:	What is their role?
Bowler	Stand with one-foot infront of the other. Step forward with the opposite foot to throwing up to stay balanced. Use your non throwing arm to point in the direction that you want the ball to go. The bowler should bowl the ball underarm. Point fingers at target as you release.
Backstop	In rounders, a backstop is the person who stands behind the batter. Their job is to catch any balls that are missed or that get past the batter. This helps to make sure the ball doesn't roll too far away, so the game can keep going without losing the ball. The backstop also tries to stop the batter from running to the next post by getting the ball back to the players quickly.
Fielders	In rounders, fielders are players who stand in different positions around the field to stop the batter from running to the posts. They try to catch the ball or get it to the posts quickly to get the batter out.

## Summer 2

## Year 7 Science: Bioenergetics

Key Vocabulary: Energy transfer Photosynthesis Chlorophyll Glucose Starch Respiration Oxygen Carbon dioxide

Key Question:
What is the
difference
between
photosynthesis
and respiration?
How does energy
transfer through
food chains?

Photosynthesis is how plants make glucose.
Happens in chloroplasts using sunlight, CO2, and water.
Word equation: carbon dioxide + water → glucose + oxygen
All living cells use respiration to release energy.
Word equation: glucose + oxygen → carbon dioxide +

Habitat: where an organism lives.
Different organisms have adaptations to suit their habitat.
Animals adapt for survival: camouflage, hibernation, etc.
Variety of life in an area.
More biodiversity = healthier ecosystems.

Key Vocabulary:
Classification
Habitat
Food chain
Food web
Producer
Consumer
Predator
Prey

**Biomass** 

Key Question:
Why is starch a
useful test for
photosynthesis?
What adaptations
help plants survive
in dry
environments?
Why is biodiversity
important?



water





# Year 7 Spanish – Topic: ¿Qué hay en tu ciudad?

¿Qué haces en la ciudad? town?	What do you do in
Salgo con mis amigos.	I go out with my
friends.	
Voy	l go
al cine	to the cinema
al parque	to the park
a la bolera	to the bowling alley
a la cafetería	to the café
a la playa	to the beach
de compras	shopping
de paseo	for a walk
No hago nada.	I do nothing.

¿Qué haces en la ciudad?	What do you do
Salgo con mis amigos.	I go out with my
friends.	,
Voy	l go
al cine	to the cinema
al parque	to the park
a la bolera	to the bowling
alley	
a la cafetería	to the café
a la playa	to the beach
de compras	shopping
de paseo	for a walk
No hago nada.	I do nothing.

¿Te gusta vivir en?	Do you like living in?
Me gusta mucho vivir en	I like living in a lot.
No me gusta nada vivir en	I don't like living in at all.
porque hay/es	because there is/it is

En la cafetería	In the café
Yo quiero	l want
bebidas	drinks
un batido de chocolate/de fresa	а
chocolate/strawberry milkshake	
un café	a coffee
una Coca-Cola	a Coca-Cola
una Fanta limón	a lemon Fanta
un granizado de limón	an iced lemon
drink	
un té	a tea
raciones	snacks
calamares	squid
croquetas	croquettes
gambas	prawns
jamón	ham
pan con tomate	tomato bread
patatas bravas	spicy potatoes
tortilla	Spanish omlette
¿Algo más?	Anything else?
No, nada más.	No, nothing else.
¿Y de beber?	And to drink?
¿Cuánto es, por favor?	How much is it,
please?	ŕ
Son cinco euros setenta y cinco.	That's 5,75 €.
, , , , ,	,

# Year 7 Wellbeing – Topic: Meditation

#### Mindfulness and Meditation can help most people at times!

Our 'everyday mind' can end up full of worries about things which are no longer true or happening or fretting about what MIGHT happen in the future – even though we know it may not!

The idea is that we are more than these conscious thoughts.

Challenging things happen, we cannot avoid that, but what we think about those challenges is very much up to us

To worry and repeatedly think about difficult things can become suffering - a habit it is all too easy to fall in. The good news however is that we can avoid it! How?

When we notice that we are worrying about things - playing through possible futures like a film in our heads or imagining something going wrong, or even remembering difficult things, unpleasant experiences, we can simply choose to bring ourselves back to the present moment, by thinking about our breathing.

This practice comes with lots of benefits...



How to Practice Mindfulness

Take a seat. Find a place to sit that feels calm and quiet to you.

Set a time limit. If you're just beginning, it can help to choose a short time, such as 5 or 10 minutes.

Notice your body. You can sit or kneel however is comfortable for you. Just make sure you are stable and in a position, you can stay in for a while.

Feel your breath. Follow the sensation of your breath as it goes out and as it goes in.

by the sit goes

Notice when your mind has wandered. When you get around to noticing this—in a few seconds, a minute, five minutes—simply return your attention to the breath.

Be kind to your wandering mind. Don't judge yourself or obsess over the content of the thoughts you find yourself lost in.

Just come back.

I know it seems way too simple! But this is an ancient practice with traditions in all major religions – including Islam and Christianity!

I know that it will seem odd at first. That is your worrying mind trying to stop you taking control over it!

But stick with it – it will help! Regularly practicing will really help!

If you are struggling with worries regularly you might want to get some support – you can start with Kooth – go to their website and sign up – it is easy, and they will help! If you need help on a specific aspect of Mental Health you can always start at the excellent FYI website here: <a href="https://www.fyinorfolk.nhs.uk/">https://www.fyinorfolk.nhs.uk/</a> - it costs nothing to sign up and get help!