





## Ms McRill

My name is Ms McRill and I will be Head of Year 7 next year. I have worked at Mulberry Academy for 5 years and have been a Head of Year for 4 years and I am also an Assistant Headteacher. This transition from Primary to Secondary school is a big change and I am here to help you find it as easy as possible.

This is a booklet to introduce you to all the subjects you will be studying in Year 7 and some you will continue to study through your seven-year journey through Mulberry Academy Shoreditch.

Each subject has given an introduction of the topics. They have also included a fact and a question/task for you.

When you arrive in Year 7, you will be put into a Year 7 tutor group. During this time we will complete a quiz based on these facts provided, so make sure you read them carefully.

## Ms Wills

My name is Ms Wills and I'm the Assistant Head of Year 7. I am also here to help you with the transition into secondary school and make sure your journey is successful and happy.

I am also a Teaching Assistant and I'm looking forward to helping you with your learning and seeing the progress you will make throughout the year.

We hope you are looking forward to your journey into Mulberry Academy as much as we are looking forward to sharing it with you.

## Maths

The Maths department is very much looking forward to teaching you Maths when you arrive to MAS in September.

Lessons will be structured with a variety of activities and opportunities to ask questions, create solutions and reason mathematically. We will build on what you have learned at primary school and ensure you keep practicing your numeracy skills. Here is an overview of what you will be studying in Y7:

### Autumn 1 – Number line

- Place value
- Inequalities
- Types of number
- Highest common factor, lowest common multiple
- Powers and standard form
- Rounding
- Converting between decimals and fractions

### Autumn 2 – Calculation

- Four operations with fractions and decimals
- Order of operation
- Fraction and percentage of amount
- Estimation

### Spring 1 – Number, expressions and sequences

- Algebraic notation
- Brackets
- Creating expressions
- Linear sequences

### Spring 2 – Number, equations and graphs

- Solving linear equations
- Coordinates in four quadrants
- Sketching linear graphs
- Interpreting linear graphs

### Summer 1 – Angles

- Construction using compasses
- Angle properties of polygons
- Angle properties of parallel lines
- Summer 2 – Transformation of shapes
- Reflection
- Rotation
- Translation
- Enlargement

## Quiz Questions

What is a prime number?

What is a perfect number?

How many shapes different quadrilaterals can you name?

## English

In English lessons in Year 7 you will read, discuss and write about *A Monster Calls* by Patrick Ness, *A Midsummer Night's Dream* by William Shakespeare and a range of poetry on the theme of nature. You will also read and write a range of non-fiction texts on the theme of animals and the environment, as well as exploring the short story genre and writing your own short story.

Fact: A good story causes your brain to release a chemical that makes you more empathetic. A team of researchers in the UK found that the brains of people who listened to character driven stories released oxytocin, a chemical that is connected to feelings of love and empathy. Another study found that people who read fiction are better able to understand and empathize with other people, and to see the world from their perspective.

**YOUR TASK** (you will need to use the internet for some of these):

1. What does empathy mean?
2. Why do you think reading stories makes people more empathetic?
3. Ernest Hemingway (a famous American writer and a master of the short story) is said to have written the shortest story ever told (just 6 words long!) What is it?
4. Write your own 6-word story



## Physics

When you come in to the school next year, you will study Physics as one of the three Sciences. Physics is a big subject and is about the world and the Universe around us. You will be studying six topics: Energy, Electricity, Light, Waves and Sound, Heat Transfer and more about Waves.

**Fact:** One fact in the Energy topic, the first one in year 7, is that Kinetic Energy is a type of energy associated with movement - anything that is moving has Kinetic Energy.

**Question:** Kinetic Energy - Find the name of eight other types of energy.

## Chemistry

Chemistry is the study of matter, its properties, how and why substances combine or separate to form other substances. Understanding basic chemistry concepts is important for almost every profession. Chemistry is part of everything in our lives.

In Year 7, you will be studying six topics:

- A. Solids, Liquids and Gases
- B. Viscosity Investigation
- C. Atoms, Elements, Compounds
- D. Separating Mixtures
- E. Chemical Reactions 1
- F. Chemical Reactions 2

**Fact:** Every material in existence is made up of matter — even our own bodies. Chemistry is involved in everything we do, from growing and cooking food to cleaning our homes and bodies to launching a space shuttle. Chemistry is one of the physical sciences that help us to describe and explain our world.

**Question:** When a solid turns into a liquid we call this melting. The question we would like you to find the answer to is “**What do we call it when a liquid turns into a gas?**”

## Biology

Biology explores how living systems are constructed, as well as how they develop, communicate, interact, reproduce, defend themselves and shape the biophysical environment around them.

In year 7, you will be delving into the microscope universe of cells. Studying cells helps us understand how organisms, including humans, function. After all, our bodies are made up of trillions of cells.

By learning about cells, we come to understand how we can:

- protect cells to prevent infection and other harmful effects
- observe cells to diagnose disease
- treat cells to heal illnesses
- stop harming cells through our choices and actions

**Fact:**

Every 7 to 10 years we become essentially new people, because in that time, every cell in your body has been replaced by a new cell!

**Your task:**

Can you find out how many different types of cells the human body contains?

Come up with a dating profile for your favourite cell. This should include:

- Name of cell
- Special feature
- Location of your cell in the body
- Occupation (Job role) of your cell



**Challenge!**  
Name a fun fact  
about your cell

## Spanish

Welcome to Spanish at Mulberry Academy Shoreditch, for most of you it will be the first time you will be learning this amazing language. In year 7 you will develop the four main skills in language learning: Listening, Reading, Writing and Speaking. You will slowly build up confidence using these skills by studying a number of interesting topics. But don't worry you will start with the basics such as greetings, basic personal information and then move on to talk about your family, your house and where you live and your what you do in your free time. We in the Spanish department look forward to meeting you in September.

**Fun Fact:** As you are maybe aware Spanish is spoken all over the world in 20 countries and not just in Spain so will be very useful for your careers.

**Question:** Before you meet us can you find out something for us? What is the answer to this question:

"I love Spanish" – How do you say this in Spanish?

## French

Bonjour et Bienvenue! Hello and welcome!

You will have the chance to study French when you arrive here, and we in the French department look forward to meeting you in September. You will learn first how to greet someone in French and have short conversations introducing yourselves. However, you will then start to learn more topics: describing your friends and family, your school, where you live and more. You will be able to speak, write, read and listen about these topics in French, but you will also learn about French culture, not just from France but in the many other countries that speak French too (there are 29 of them). It's so exciting learning a new language, and I can't wait for you to experience this amazing, useful and extremely fun subject at Mulberry Academy Shoreditch!

**Fun Fact:** Around 45% of modern English words are of French origin. This means that there are so many words in the English language that come from the French- so you might see words that look very similar!

**Question:** What is the meaning of the word "Francophone"?

## Latin

Salve Year 7 and welcome to Latin!

You will have the chance to study Latin when you arrive here, a fantastic opportunity that will improve your skills across lots of different subjects. You will learn first how to greet someone in Latin and have short conversations introducing yourselves. After this, we will build in other things to improve your language skills even more. You will also learn a lot about Roman culture and how this still has a huge impact on our society even today! Latin is such a fantastic language and the Romans are such interesting people to study - I can't wait for to experience this new, exciting and wonderful subject at Mulberry Academy Shoreditch!

### Here's a fact about the Latin

About 80% of words from the entire English language are borrowed, mainly from Latin. This means most English words come from Latin which will improve your vocabulary!

**My question for you:** How many different Roman inventions can you find that we still use today?



## Geography

Term 1		Term 2		Term 3	
					
World Locations	Geographical skills + GIS	Africa	Climate Change	Development	Ecosystems
This topic explores many exciting locations around the world, focusing on the physical and human geographical aspects of each place!	You will learn how to use an atlas, read a variety of different maps, create grid references, longitude and latitude and how to create GISs (Geographical Information System).	This topic explores Africa's physical landscapes and human features such as culture, school life and political aspects.	One of the most topical topics of your generation is explored by focusing on the causes, impacts, and responses to climate change in the UK and around the world.	This topic explores the economic and social well being of different nations around the world. You will learn about the causes, impacts and responses to uneven development.	You will learn about tropical rainforests and UK regions where plants, animals, and other organisms, as well as weather and landscape, work together to form a bubble of life.



**Geography Fact:** Russia is so big that it's home to 11 time zones.

At one end of Russia it could be 7 in the morning and at the other it's 6 in the evening.

### BE A GEOGRAPHER!

**Question:** What is longitude and latitude? Can you read it on a map? What are the longitude and latitude co-ordinates for Mulberry Academy Shoreditch?

### LATITUDE & LONGITUDE



We will, we will, locate exact points  
We will, we will, find them on the map  
Latitude lines run east to west  
They go up down like a ladder  
Longitude lines run north to south  
It includes the Prime Meridian  
We will, we will, locate exact points  
We will, we will, find them on the map

CREATIVITY  
in EdU

## History

In Year 7, students will be learning about what historians can learn about the volcanic eruption in Pompeii and what it tells us about life in the Roman empire, the Battle of Hastings and the fight for the English Crown in 1066, Life in the Middle Ages, the history of migration and migration to East London.

**Fun Fact:** Historians believe that the reason flowers are worn at weddings dates back to the Middle Ages. In this time, people would only bath once or maybe twice a year and typically at wedding the whole village would attend. This many people together would cause a bad smell so people wore flowers on their dress and shirts to lessen the smell. The guests would then pin their flowers on the bride and groom as a gift.

**Question:** In HT 2, students will be learning about the Norman conquest of England. Can you find 10 English words that have a French origin and explain what these words mean.

## Religious Education

In Year 7 you will study the following topics:

### Introduction to Religious Studies

This unit is designed to introduce you to Religious Studies.

#### **Should Religious Buildings be sold to feed the starving?**

This investigation enables you to learn about the purposes and types of worship and the buildings people worship in.

#### **Is Jesus a Rebel?**

This investigation enables you to learn from different view of Jesus, and how people within a religion or world view understand and live out the teachings of Jesus.

#### **What is good and what is challenging about being a teenage Sikh/Buddhist/Muslim in Britain today?**

This investigation enables you to learn from Buddhists, Muslims and Sikhs and their ways of living, beliefs and communities, providing opportunities to consider challenging questions about the place of religion in Britain today.

**Fact:** Christianity is currently the world's largest religion (2.4 billion followers). Islam the second (1.9 billion followers) and Hinduism the third.

**Question:** Why are signs and symbols so important in all religions?

## Art

Artist use the Formal elements of art to create artwork. They are like the letters used in languages, made up of spaces and marks.

The Formal Elements of Art are: Line, Tone, Colour ,Texture, Shape and Value.

### **Unit 1: Introduction to the Formal elements of Art:**

**Line:** You will explore a range of Line weight, using a range of materials.

**Materials:**

Drawing with pencils, pens and Ink

Printmaking using a range of mark-making techniques.

**Tone:** Sketchbook work : Drawing Natural Forms using a 2B pencil ink

You will research the artists Van Gogh and Andy Warhol.

### **Unit 2: You will be to learn about the Colour Theory**

You will make colour wheel mixing primary colours to create the secondary and Tertiary colours.

**Materials:**

Colour pencil work

Powder Paint and Water colour .

Collage

**Unit 3:** You will Create a Final Artwork , using the Formal Elements of Art.

**Materials:** Students will create a final Artwork using photography and painting techniques. Your painting will be about everyday objects, like Toys and sweets.

You will look at artists, Sarah Graham and Joel Peckman.

### **Questions**

1. Name the 7 Formal Elements of Art?
2. What are the 3 Primary Colours?
3. What are the 3 Secondary colours ?
4. What are Tertiary Colours?
5. What are complimentary colours?
6. What type of paint does the painter Joel Peckman use to make her work and what is the made ingredient that she uses?



## Drama

Welcome Year 7 to the wonderful world of drama at Mulberry Academy Shoreditch. At MAS, you will learn how to present a character through research and hot-seating in your first half term. When you first join us, you will be part of a creative project called 'Who am I?' Which supports you in creating an innovative speech about who you are and what makes you you. You will also develop many other skills throughout the year including: set design construction, performing a character from various texts, the role of a director, multiple opportunities for developing script writing skills and devised theatre (whereby you make your own ideas for scenes in groups). You will explore many skills in drama through play texts such as Ernie's Incredible Illucinations, to the comedic writings of Roald Dahl's revolutions rhymes, to more traditional play texts from William Shakespeare - A Midsummer Night's Dream.

**A Fact about our subject:** Two of our Houses are named after theatres in London. True or false?

**Question about theatre in London:** How many Theatres are there in the City of London and can you find the name of the longest running musical in London's West End?

## Computer Science

In Y7 Computer Science, you will learn how to program using Python, a real programming language used by professionals all over the world. Some of your favourite apps such as Netflix, Spotify and Instagram have been written using Python. You will also learn about how computers actually work, create games in Scratch programming language, learn how to use the binary number system and see how images are actually saved in binary.

**Fact:** The Python programming language, one of the most popular in the world, was named 'Python' because the creator was watch Monty Python for entertainment when creating the language.

**Question:** What is the difference between 'input' and 'output'? Can you write a program in Python that inputs a person's name and then tells them 'Welcome to Mulberry Academy Shoreditch, \*name\*!'?

## Cooking and Nutrition

As part of their work with food, KS3 pupils will be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

Pupils will be taught to:

- Apply knowledge of Food Health, Safety and Hygiene
- understand and apply the principles of nutrition and health
- cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet
- become competent in a range of preparation and cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes
- understand food miles, the source, seasonality and characteristics of a broad range of ingredients
- Present and evaluate dishes/ products they make.

### **Questions:**

1. What are the benefits of good hygiene and safety practices when handling and preparing food?
2. How can you ensure food is made safely in your Cooking and Nutrition lessons?
3. Design a hygiene and safety poster highlighting good practices.

## PE

Welcome to the P.E. department. As a team we are very excited to welcome you in September and have been busy planning your arrival. We can't wait for you to get involved in a variety of fun games and activities that we have planned specially for you in the coming year.

During your time at Mulberry Academy you will have the opportunity to take part in many different sports and activities. As a department we make sure you get the opportunity to participate in sporting tournaments with other schools in the area. Additionally, we organise school sports day for all year groups in July, which is lots of fun!

During your time at Mulberry Academy you will work with four different teachers, which each offer their own specialism. We teach a great number of different sports such as football, hockey, netball, dance, badminton and many more. As a team we strive to build your confidence, while having fun and learning skills along the way.



Mr McCabe is head of the department. His passion lies in football and you can always be sure he will be pushing you to do your best from the sidelines. Whilst at Mulberry Academy both girls and boys will have an opportunity to learn new football skills, take part in house competitions and football tournaments with other schools.

**Task:** What is the record number of keepie uppies in a minute? How many keepie uppies can you do in a minute? Mr McCabe can do 28, can you beat him?

Ms Miller has a passion and enthusiasm for many different sports. You will have an opportunity to learn netball, basketball, gymnastics and many more. By the end of the year you will have learnt many different skills from Ms Miller and will move into year 8 feeling super confident.

**Task:** Can you research the 3 different type of passes in netball. How many passes can you do of each type in a minute? Can you beat Ms Seabrook? her record is 22 a minute.



Ms Seabrook loves team sports but her true passion is dance and gymnastics. Over the year you will explore different dance styles and techniques. You will also take part in a creative task to create your own dances and maybe by the end of the year you will be making up your own TikToks. You will also have the opportunity to take part in yoga classes, pilates and mindfulness exercises to keep you calm and positive for all your other academic lessons.

**Task:** Can you find out the different national dance style for 4 different countries and learn one movement from each?

Mr Cameron loves ALL sports and his enthusiasm for P.E. is inspiring. Mr Cameron has been playing hockey since University so by the end of Year 7 you will feel confident in a variety of different hockey skills. Hockey is Mr. Cameron's passion but he will also teach you skills in football, basketball, badminton and gymnastics. Just don't ask him to do the splits!

**Task:** Research the technique of how you dribble a basketball. How many times can you bounce the ball in one minute? Mr Cameron's record is 32, I bet you can beat him.

Year 7 is such an exciting year full of learning, inter-house competitions and making new friends. As a department we want to fill you with passion and confidence in your chosen sport.

As a department we can't wait to welcome you!



## Music

Music is a celebration of cultures. It is a form of art and expression, and is a language that people from all around the world can share, speak and express themselves in. From a beautiful piano concerto to the latest trends in popular music there is an infinite world of exciting music steeped in culture and history waiting to be enjoyed and discovered.

In year 7, you will learn how cultures from around the world impact the music we listen to today. Studying styles such as Samba, learning all about the different types of percussion instruments. Each term we work towards a performance that shares our progress and celebrates the music we study.

You can expect to learn the following:

- How to read and play rhythms from musical notation.
- How culture, history, religion and geography all play a part in the creation of new musical styles
- To play various percussion instruments
- To play as part of an ensemble/band

**Fact:** Famed physicist and genius, Albert Einstein played the violin? In fact, he said the following:

*“If I were not a physicist, I would probably be a musician. I often think in music. I live my daydreams in music. I see my life in terms of music... I cannot tell if I would have done any creative work of importance in music, but I do know that I get most of my joy in life out of my violin.”* - Albert Einstein.

### Your task:

I love learning about different music from cultures around the world but there is just so much to learn and discover that I can't find it all on my own! Therefore, I would like you to research music from other parts of the world and create a poster telling me all about it! You will need to include the following:

1. What is the type (genre) or music called?
2. What instruments do they use? Do they have a special name?
3. Where in the world can we find this music?
4. An interesting fact about the music/culture.
5. Where can I find it? Youtube? Spotify?

# Reading

Reading is at the heart of learning. It unlocks knowledge, develops language skills and provides opportunities to think and reflect.

At Mulberry Academy Shoreditch, we recognise the importance of reading in the learning process, and realise that most progress is made when parents and teachers work together to improve a child's learning.

What YOU can do at home to improve your child's reading.

Reading is a skill that needs to be practiced constantly. So, encourage your child to read at least 10 minutes every day.

Try to get your child to develop the reading habit by providing a quiet place for them to read at the same time every day.

Find out your child's reading age. Help them to choose the right level book for them, not too difficult and not too easy. Their English teacher and the librarian will also be able to help them choose.



Show an interest in your child's reading. Ask them about what they are reading. Encourage them to read for the reading awards.

Be a good role model yourself. Let your child see you reading.

If your child is a weak or reluctant reader, sit and listen to them read two or three times a week using the pause, prompt, praise method of encouraging reading.

## Key

\*- If you are a less confident reader

\*\* - If you are a very confident reader and are looking for an extra challenge

## Reading List:

### Adventure

Stormbreaker - Anthony Horowitz  
Lion Boy - Zouzou Corder  
Cold Tom - Sally Prue  
The Thief Lord - Cornelia Funke\*\*  
The Moon Riders - Theresa Tomlinson  
Castaways of the Flying Dutchman - Brian Jacques  
Alpha Force Series - Chris Ryan  
Hacker and Thief - Malorie Blackman  
Hatchet – Gary Paulson  
Young Bond Series – Charlie Higson  
Young Sherlock Series – Andrew Lane  
The London Eye Mystery  
– Siobhan Dowd \*\*  
Wild Boy – Rob Lloyd Jones  
Any books in the FYI: Fiction with Stacks of Facts Series.\*  
Swallows and Amazons – Arthur Ransome  
Troy – Adele Geras

### Classics

Little Women - Louisa May Alcott \*\*  
The Secret Garden - Frances Hodgson Burnett  
Carrie's War - Nina Bawden  
Alice's Adventures in Wonderland  
- Lewis Carroll  
The Railway Children - Elizabeth Nesbit  
Black Beauty - Anna Sewell  
Ballet Shoes - Noel Streatfield  
Anne of Green Gables - L.M. Montgomery  
Peter Pan - J. M. Barrie  
The Hobbit – J R R Tolkien\*\*  
The Lost World – Sir Arthur Conan Doyle  
The Wizard of Oz – Frank Baum  
Pollyanna – Eleanor H. Porter  
The Little House on the Prairie – Laura Ingalls Wilder

### Real Life

The Princess Diaries - Meg Cabot  
Refugee Boy - Benjamin Zephaniah  
Madame Doubtfire - Anne Fine  
Plague 99 - Jean Ure  
Granny the Pag - Nina Bawden  
Step by Wicked Step - Anne Fine  
Just Don't Make a Scene Mum! - Rosie Rushton  
Saffy's Angel - Hilary McKay  
Holes - Louis Sachar \*  
All by Jacqueline Wilson  
Feeling Sorry for Celia - Jaclyn Moriarty  
The Weight of Water – Sarah Crossman\*\*  
Cowgirl – G.R. Gremim

### Fantasy

Moon Riders - Teresa Tomlinson  
Stormchasers - Stewart & Riddell  
Redwall - Brian Jacques\*  
The Earthsea Quartet - Ursula Le Guin\*\*  
The Wolves of Willoughby Chase - Joan Aiken\*\*  
Stravaganza: City of Masks - Mary Hoffman  
Inkheart - Cornelia Funke  
Artemis Fowl - Eoin Colfer  
A Series of Unfortunate Events - Lemony Snicket\*  
The Spiderwick Chronicles - Tony Di Terlizzi & Holly Black  
Cry of the Iceberg - Stuart Hill  
The Blade of Fire - Stuart Hill  
Narnia - C.S. Lewis  
The Named - Marianne Curley  
The Edge Chronicles - Stewart & Riddell  
Mortal Engines – Phillip Reeves  
Northern Lights - Philip Pullman\*\*  
Harry Potter (Books 1 - 4) - J. K. Rowling  
The Borrowers - Mary Norton

The Lie Tree – Frances Hardinge\*\*  
 The Boy Who Swan with Piranhas  
 – David Almond  
 Witchfinder Series – William Hussey  
 The Saga of Darren Shan Series  
 – Darren Shan  
 The Alex Rider Series – Anthony Horowitz  
 The Timepiece Series – Anne Perry \*  
 The Earthsea Quartet – Ursula Le Guin  
 The Wind of Fire Trilogy – William  
 Nicholson

### Funny

Ally's World (Series) - Karen McCombie  
 The Edge Chronicles - Stewart & Riddell  
 My Family and Other Animals  
 - Gerald Durrell\*\*  
 Millions, Cosmic and Desirable  
 – Frankie Cotrell Boyce \*  
 Billionaire Boy – David Walliams\*  
 All by Roald Dahl \*

### History

Goodnight Mr Tom  
 - Michelle Magorian (WWII)  
 The Wheel of Surya - Jamila Gavin (Indian  
 independence)  
 Kiss the Dust - Elizabeth Laird (Kurdish  
 refugees)

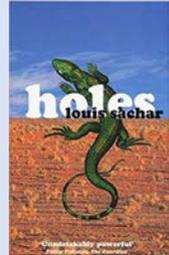
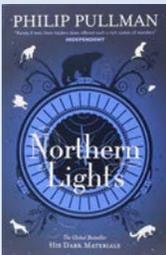
The Ruby in the Smoke - Philip Pullman  
 (first of the Sally Lockhart trilogy set in  
 Victorian London)  
 Roman Mysteries - Caroline Lawrence  
 Sweet Clarinet etc - James Riordan (WWII)  
 The Silver Sword - Ian Serraillier  
 Carrie's War - Nina Bawden  
 I Coriander - Sally Gardner

### Animal Stories

Watership Down - Richard Adams  
 The Snowgoose - Paul Gallico  
 Jennie - Paul Gallico  
 The Sheep Pig - D King-Smith\*  
 My Family and Other Animals  
 - Gerald Durrell  
 Dumb Creatures - Jeanne Willis  
 The Amazing Story of Adolphus Tips –  
 Michael Morpurgo

### Sport

Kick Off Series – Dan Freedman \*  
 Running for Gold – Owen Slot \*  
 T.J. and the Cup Run – Theo Walcott \*





## ‘Learn more about Mulberry Academy’ Quiz

(Use the school website to help find the answers.)

1. What is the name of the Executive Principal?
2. How many Houses are there?
3. What are the names of the Houses?
4. What new subjects will you study in Year 7?
5. What will you wear for PE?
6. What jewelry are you allowed to wear?
7. Name 2 things you are not allowed to wear in school?
8. Name 3 clubs you can get involved in?
9. What time does school start?
10. What time does school end?
11. How long is each lesson?
12. How many lessons in one day?

## Careers Activity

Try to think of a job starting with every letter of the alphabet. Which subjects would you need to study to achieve that job?

Letter	Job	Subjects linked
A		
B		
C		
D		
E		
F		
G		

H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
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