



Hall Park Academy

KEY STAGE 4

PATHWAYS

Information about your subject choices

For Year 9 students and their parents

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This is likely to be the first major decision that students will make about the direction of their education. Along with decisions after Year 11, the choices they make now will play a big part in how successful they are in the future and their route into further education and employment in the years to come.

This first section of this booklet contains important information about the process and how the choices can be made. The second section gives information about each of the subjects we offer.

A personalised form is also issued to every student with information about their choices and how they can be **submitted online by Tuesday 18th April**. This gives students plenty of time to find out the information they need to make the right choices.

There is also a special **Pathways Information Evening on Thursday 30th March (7pm)** where students and their parents can find out more information about the Pathways process and the different subjects on offer.

Important dates

Pathways Information Evening:	Thursday 30 th March 7:00pm
Choices can be submitted online:	Thursday 30 th March to Tuesday 18 th April

What will be on students' timetables next year?

The curriculum that students will follow in Years 10 and 11 is made up of *core subjects* and *options choices*:

- **Core subjects** are those that will definitely be a part of the curriculum for a student. However, students will have some choices that can be made within these subjects.
- **Option subjects** give our students the flexibility to choose particular courses that they wish to study in addition to their core subjects.

Hall Park Academy prides itself on our ambitious, academic curriculum. As part of their **core subjects**, all students will continue to study English, Mathematics, Science, Core Religious Studies and have periods of Physical Education (PE). Most students will achieve two GCSE grades for their English studies: 'English Language' and 'English Literature'. If they are successful, students will gain a half GCSE in Religious Studies after Year 10 through their core Religious Studies lessons. A wider curriculum comprising of personal, social, health and economic education (PSHE) and relationships, sex and health education (RSHE) will be delivered in tutor time, assemblies and at other points throughout the year.

A number of our students will also have a humanities subject (Geography or History) and a language subject (French or German) as part of their core curriculum. This particular combination of subjects - along with English, Maths and Science - has been established as the academic pathway for students who are considering further and higher education (known as the English Baccalaureate) and so will maximise their chances of success over the coming years. Other students will be directed to make choices from particular subjects to be part of their core curriculum (humanities, languages and sciences).

Students' **option subjects** will make up the remainder of their timetable. They are able to choose these subjects themselves and focus on particular strengths or areas of interest.

Advice

Once choices have been submitted, they will become part of a student's timetable for Year 10. We therefore encourage our students to make positive, well-informed choices. Whatever they choose, it is a two-year commitment. Students need to choose courses in the areas that will enable them to get the right qualifications for education and employment in the future.

Preferred choices

It is important to remember that on the Pathways form students are indicating a *preferred* choice of subjects. We will make every effort to ensure students can have all of their choices, but it is not always possible to cater for a student's preferred combination of subjects. This is why we ask all of our students to *rank their choices in order of preference* and include one additional choice (essentially a reserve choice).

We are only able to offer a particular number of classes for each subject. If numbers are exceeded, then we will consider students' other choices (based on their order of preference). In addition, if a viable number of students do not choose a subject then it may not be able to run.

Please note that students will only be able to choose German if they have studied this subject in Years 7, 8 and 9.

GCSEs and vocational qualifications

The subjects that students will study in Years 10 and 11 are GCSE qualifications unless stated otherwise. We also offer the following vocational courses: BTEC Health & Social Care and Engineering. The more practical learning in these subjects may be more suitable for some students because they are assessed by on-going assignments with an exam to take as well. These vocational courses are all equivalent to one GCSE.

The GCSE grading system

Students are now graded using a numerical nine-point scale in their GCSE subjects with 9 as the top grade and 1 the lowest. This replaces the old eight-point A*-G grading system.

Broadly the same proportion of students will achieve a grade 4 or above as would have previously achieved a grade C or above. However, these students' achievements will be spread over six different grades (4 up to 9), as opposed to the previous four (C up to A*), providing greater differentiation in student performance at this level.

New grades	Old grades
9	A*
8	
7	
6	B
5	
4	
3	D
2	E
1	F
	G
U	U

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English Language and English Literature

All students will study English Language and English Literature achieving two GCSE qualifications.

How will I be assessed?

For GCSE English Literature, students will study a wide range of literature, including pre-20th Century novel, a Shakespearean play, a selection of poetry which explores the themes of Power and Conflict as well as a play written in the 20th Century. Students will develop their ability to write analytical essays which demonstrate their reading skills.



For GCSE English Language, students will develop a range of writing skills which will explore a variety of genres, audiences and purposes. Students will also study and respond to a range of fiction and non-fiction texts to prepare for the unseen aspect of the GCSE English language examinations.

In both GCSE English Language and Literature, students will also be assessed on the quality of their written communication. Students will need to focus on the spelling, punctuation and grammar to maximise their chances of GCSE success.

GCSE English Language and English Literature are examined at the end of Year 11. Students will complete two English Language and two English Literature exams. The English Language exams will both focus on unseen texts and English Literature will focus on specific texts that have been studied beforehand.

What could my next steps be?

After completing GCSEs in English Language and English Literature, students might consider pursuing English Literature at A-Level in our Sixth Form.

Mr Sisson (Head of English) - sissonc@hallparkacademy.org.uk

Mathematics

We believe that Mathematics should be an interesting and positive experience that enthuses students and allows them to make connections across multiple key mathematical concepts. We also believe that all students should be leaving their secondary studies mathematically functional.

We aim to do this through excellent teaching, high standards of our students and excellent support systems in place, which all ultimately create opportunities for our students to be successful.

The GCSE course is split into two tiers, higher and foundation, with students able to achieve grades 1 - 5 on the foundation tier and 4 - 9 on the higher tier. Students are set in groups based on prior attainment during KS3. However, there is scope for movement between the sets throughout Key Stage 4.



Alongside the GCSE, a small number of students will work towards Entry Level qualifications to strengthen functional mathematical sense and build confidence towards the GCSE. For our students who want to go on to study Mathematics at a higher level than GCSE, there is the option during Year 11 to work towards the Level 2 qualification in Further Mathematics. This is an excellent bridging qualification to A-Level Mathematics.

What will I learn?

Year 10	Year 11
Students begin to study a two-year scheme of work that allows them to further develop and build on their experiences during KS3. Deepening their understanding of number, algebra, shape, data and probability.	Students continue to study the two-year scheme of work until the course is complete, alongside a mini-mock cycle before progressing on to key revision skills and exam preparation for the summer examinations.

How will I be assessed?

This course follows the AQA GCSE linear specification with the assessment consisting of a non-calculator exam paper and two calculator exam papers to be sat at the end of Year 11.

What could my next steps be?

Whatever your career choices, Mathematics will be important to you. The conceptual understanding, problem solving, systematic working and logical thinking skills it develops are considered by most employers to be vital to the success of their business.

The Sixth Form also offers A-Level Mathematics and A-Level Further Mathematics here at Hall Park Academy for those students that wish to further develop their mathematical skills which regularly top employers' wish lists.

Mr Cutts (Head of Maths) - cuttsj@hallparkacademy.org.uk

Science

All students in Years 9, 10 and 11 study Science. Students who opt for Triple Science as one of their options will gain three Science GCSEs. Those who do not take this as one of their options will gain a science award which is worth two GCSEs and given a double grade from 9-9 to 1-1. Students study the AQA Combined Science (Trilogy) specification which covers elements of all three specialisms (Physics, Chemistry and Biology). GCSE Science builds on the knowledge and concepts introduced in Key Stage 3 and develops students' understanding of the world around them, the human body and key scientific processes. In order to be successful in science students need to be able to work independently, analyse information, have good grasp of mathematics and be able to take on knowledge and apply it to new situations.



What will I learn?

Outline units for Double Science are shown in the table below.

Biology	Cell biology organisation Infection and response	Bioenergetics Homeostasis and response Inheritance, variation and evolution Ecology
Chemistry	Atomic structure and the periodic table Bonding, structure and the properties of matter Quantitative chemistry Chemical changes	Energy changes The rate and extent of chemical change Organic chemistry Chemical analysis Chemistry of the atmosphere Using resources
Physics	Forces Energy Waves Electricity	Magnetism and electromagnetism Particle model of matter Atomic structure

How will I be assessed?

All exams are taken at the end of Year 11 with six papers, two for each of the three Science specialisms. Each paper is worth an equal amount of the total marks and exams are available at both higher and foundation tier. There is no longer any non-examined assessment in Science. Instead, students are internally assessed on a number of practical tasks which will be assessed as part of their exam questions.

What could my next steps be?

All careers and further study use the skills and understanding gained by completing a Science GCSE and, as such, it is a core subject taken by all students. However, should students wish to study science further, achieving a grade 6-6 in Science allows them to study separate Sciences at A-Level.

Mr Wright (Head of Science) - wrightb@hallparkacademy.org.uk

Triple Science

Triple Science gives students the chance to achieve three separate science qualifications in Biology, Chemistry and Physics, instead of the Double Award Science qualification. It is aimed at students who consistently achieve well in science and are self-motivated who wish to develop their understanding to a higher level. It will stretch and challenge our most able students by providing them with a greater depth and range of science study. It is expected that the majority of students in set one science in Year 9 will opt for Triple Science as one of their options. Additionally, students achieving highly in other sets would be encouraged to apply.



A strong knowledge of mathematics and ability to manipulate data is also required, as well as an ability to be self-motivated and to work independently right from the start of the course. Any students intending to study Science A-Levels and considering careers in medicine, veterinary science, physiotherapy, engineering or law are encouraged to choose Triple Science.

What will I learn?

Biology	Chemistry	Physics
Cell biology Organisation Infection and response Bioenergetics Homeostasis and response Inheritance, variation and evolution Ecology	Atomic structure and the periodic table Bonding, structure and the properties of matter Quantitative chemistry Chemical changes, energy changes The rate and extent of chemical change Organic chemistry Chemical analysis Chemistry of the atmosphere Using resources	Forces Energy Waves Electricity Magnetism and electromagnetism Particle model of matter Atomic structure Space physics

How will I be assessed?

Each of the three qualifications has two exam papers. There is no longer any non-examined assessment. Instead, students are internally assessed on a number of practical tasks (set by the board) which will be assessed in the form of exam questions in the terminal paper.

What could my next steps be?

All careers and further study use the skills and understanding gained by completing Science GCSE and, as such, it is a core subject taken by all until the age of 16. However, should students wish to study Science further, achieving high grades for each of the separate Sciences allows them to study separate Sciences at A-Level. Those who have studied Triple Science at GCSE find that the jump from GCSE to A-Level is more manageable and that they are ideally placed to do well on their Post-16 courses. We strongly recommend that students given the option to study Triple Science opt for this qualification.

Mr Wright (Head of Science) - wrightb@hallparkacademy.org.uk

History

This GCSE course will train you to be an effective historian. You need to have a keen interest in History and finding out why things happen.



What will I learn?

Paper 1 British Thematic Study with Historic Environment	Thematic study: Medicine in Britain 1250 to present Historic environment: The British sector of the Western Front: injuries, treatment and the trenches. This paper is worth 30% of your final mark.
Paper 2 Period study and British depth study	Period study: The American West 1835 – 1895 British depth study: The reigns of King Richard I and King John 1189-1216 This paper is worth 40% of your final mark.
Paper 3 Modern depth study	Period study: Weimar and Nazi Germany 1918 – 39 This paper is worth 30% of your final mark.

How will I be assessed?

There are three exams which are all assessed at the end of Year 11. By this time, we will have thoroughly prepared students with a deep understanding of the periods and topics needed, as well as methods for how to evaluate texts, and structure exam answers.

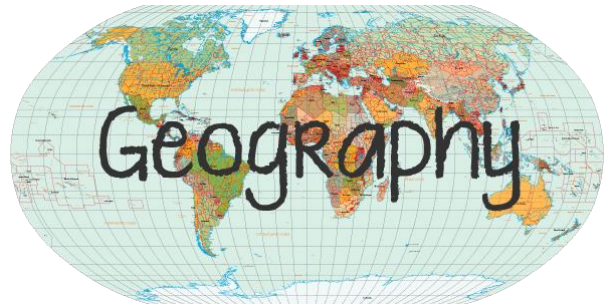
What could my next steps be?

This is a qualification that gives you many skills that employers value. History students have pursued careers as lawyers, teachers, social workers, journalists, scientists, doctors, archivists and researchers. The next step from GCSE is A-Level History, which at Hall Park Academy focuses on Industrial and Modern History.

Mr Fenby (Head of Humanities) - fenbyj@hallparkacademy.org.uk

Geography

This subject covers a number of exciting topics which develop students' skills and enable them to become global citizens of the future. The key to this subject is enthusiasm, determination and commitment. All students sit the same level exam at the end of the course.



What will I learn?

Living with the physical environment	Investigating tectonic hazards, tropical storms, extreme weather and climate change.
Coastal landscapes in the UK	Discover the processes and landform that shape the UK coastline. Look at coastal management and the potential conflicts that can arise.
Living World	Examine the relationships between the environment and humans, focusing on two specific ecosystems; hot deserts and tropical rainforests.
Challenges in the human environment	Studying the multiple urban issues and challenges, the changing economic world and the need to effectively manage resources including food, water and energy.
Issue Evaluation	This synoptic unit brings together multiple elements of the above topics and presents students with problem-solving tasks around key geographical issues. There will be content released before the examination that gives students the opportunity to work through the resources and familiarise themselves with the topic in hand.
Fieldwork	Students complete two fieldwork enquiries involving the use of primary and secondary data. One enquiry will involve a physical geography topic and the other a human topic.

How will I be assessed?

There are three exams which are all assessed at the end of Year 11, covering a variety of physical geography and human geography topics. Students will also undertake two pieces of fieldwork which develop the necessary skills and understanding for one of the examinations.

What could my next steps be?

GCSE Geography gives students such a wide range of skills and knowledge and can be a stepping-stone to jobs in research, transport/urban planning, journalism, travel, cartography and environmental science, or if you want to be a climatologist, volcanologist, medical researcher, lawyer, teacher or even work in the media.

Mr Ford (Head of Geography) – fordj@hallparkacademy.org.uk

French

GCSE French is a course designed for communicative students who enjoy studying a language and want a better understanding of how languages form and develop. You will build upon the skills gained during Key Stage 3, and by the end of the course will have developed the ability to:

- Communicate a variety of topics in the language, using a variety of structures and tenses
- Develop transactional language required when visiting France and francophone countries
- Understand the language in both spoken and written forms
- Communicate effectively with French-speaking people both at home and abroad
- Learn about the culture of France and francophone countries
- Manipulate and interpret the language
- Widen your knowledge and understanding of the English language

You will be studying the AQA GCSE for French.

How will I be assessed?

Students complete four exams at the end of Year 11 which assess skills in reading, listening, speaking and writing. These four exams are equally weighted and worth 25% each.



What will I learn?

To gain a higher grade in French, students need to develop a wide range of structures and vocabulary which they need to use accurately in the productive skills and understand in the passive skills. Students will cover a wide variety of topics, such as;

- Leisure and free time activities
- Advantages and disadvantages of new technology
- Holidays – plans, preferences, experiences
- Education and the French school system
- The environment

Students will also enhance their language skills by accessing authentic resources such as poetry, literary texts, music and websites from French-speaking countries. Students will also benefit from translation activities and responding spontaneously to written and aural language.

What could my next steps be?

Studying French GCSE allows students to go on to study French at A-Level which is available in our Sixth Form. Learning a language makes you stand out from the crowd when applying for further education or employment. French is spoken in many countries across the world from Canada to Africa, and multinational companies need employees who can communicate in French. Language qualifications are useful in many careers both in the UK and abroad, and allow you the freedom to work across borders.

Mrs Wilson (Head of Modern Foreign Languages) - wilsonc@hallparkacademy.org.uk

German

GCSE German is a course designed for communicative students who enjoy studying a language and want a better understanding of how languages form and develop. You will build upon the skills gained during Key Stage 3, and by the end of the course will have developed the ability to:

- Communicate a variety of topics in the language, using a variety of structures and tenses
- Develop transactional language required when visiting Germany and German-speaking countries
- Understand the language in both spoken and written forms
- Communicate effectively with German-speaking people both at home and abroad
- Learn about the culture of German-speaking countries
- Manipulate and interpret the language
- Widen your knowledge and understanding of the English language

You will be studying the AQA GCSE for German.

How will I be assessed?

Students complete four exams at the end of Year 11 which assess skills in reading, listening, speaking and writing. These four exams are equally weighted and worth 25% each.



What will I learn?

To gain a higher grade in German, students need to develop a wide range of structures and vocabulary which they need to use accurately in the productive skills and understand in the passive skills. Students will cover a wide variety of topics, such as;

- Leisure and free time activities
- Advantages and disadvantages of new technology
- Holidays – plans, preferences, experiences
- Education and the German school system
- The environment

Students will also enhance their language skills by accessing authentic resources such as poetry, literary texts, music and websites from German-speaking countries. Students will also benefit from translation activities and responding spontaneously to written and aural language.

What could my next steps be?

Studying German GCSE allows students to go onto study German at A-Level which is available in our Sixth Form. Learning a language makes you stand out from the crowd when applying for further education or employment. German is spoken in many countries across the world and has recently been named as the most useful language in the business world. Many companies need employees who can communicate in German. Language qualifications are useful in many careers both in the UK and abroad, and allow you the freedom to work across borders.

Mrs Wilson (Head of Modern Foreign Languages) - wilsonc@hallparkacademy.org.uk

Art and Design

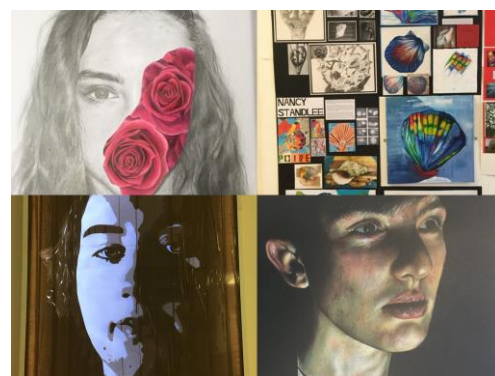
If you choose to study GCSE Art and Design you will explore a range of practical activities and respond in a personal way to different themes.

You will experiment with a range of media including clay, printmaking, collage, textiles, painting and drawing, enabling you to develop confidence with your skills.

You will continue to develop your critical thinking in response to a range of artists.

This course will suit you if you:

- Like to use different materials and processes to develop your visual skills
- Are creative, enthusiastic and imaginative
- Are willing to experiment and to take risks when trying out new ideas
- Are able to work independently and like to visit art galleries and museums to make your work more informed and interesting
- Like communicating your ideas, opinions and addressing issues
- Enjoy creating artwork in your own time



How will I be assessed?

Unit 1(8202/C): A portfolio (non-examined assessment 60%) that in total shows explicit coverage of the four assessment objectives. It must include a sustained project evidencing the journey from initial engagement to the realisation of intentions and a selection of further work undertaken during the student's course of study.

Unit 2 (8202/X): AQA set task (project examination 40%) You will have a number of weeks to produce preliminary studies for your examination, based on the starting point set by the board. You will create your final piece in a ten-hour examination.

What could my next steps be?

Students who achieve a good grade at GCSE would be well prepared to study A-Level or Level 3 BTEC courses. Careers opportunities are vast: architecture, animation, illustration, product design, fashion, textiles, ceramics, jewellery, visual media, graphics, sculptor, painter, game design, fine artist, curator and many more. Employers of many businesses are favouring people with creative skills!

Mrs Murphy (Head of Art) - murphyk@hallparkacademy.org.uk

Business Studies

What will I learn?

While studying this course, you are likely to learn a lot of new things. You will be introduced to the world of small businesses and will look at what makes someone a successful entrepreneur. You will find out how to develop an idea and spot an opportunity and turn that into a successful business. You will understand how to make a business effective and manage business finances effectively.



You will also see how the world around us affects small businesses and all the people involved. You will also learn more how small businesses are established and developed and discover why it is so important to meet and exceed customer needs and expectations. You will then investigate how an effective marketing mix can be developed in order to satisfy these needs and therefore maximise profits. In Unit 2, you will learn about the key decisions needed in order to expand a business. These decisions relate to the areas of marketing, operations, finance and human resources.

How will I be assessed?

During the course, you will complete two units, which will be assessed as follows:

Unit	Title	Assessment Method	Weighting
Unit 1	Investigating small business	Exam	50%
Unit 2	Building a business	Exam	50%

What could my next steps be?

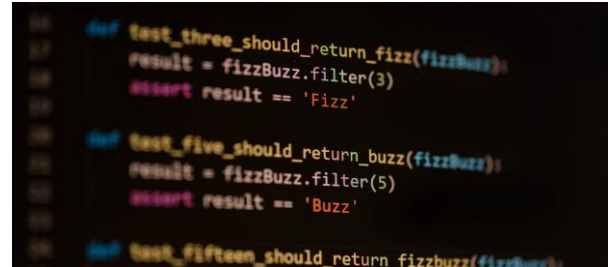
This course can help you prepare for a range of further and higher education routes, such as AS/A2 Business and BTEC/NVQ Business related courses. You will become skilled in making decisions, being creative, solving problems, understanding finance, dealing with data, communicating and working as part of team. All of these skills will be useful for you later in life. A GCSE Business course could lead to work in a business-related profession such as accountancy, law, marketing or the leisure and tourism industry.

Mr Eden (Lead Teacher of Business) - edenk@hallparkacademy.org.uk

Computer Science

This is a course that has real relevance in our modern world. The course will give you an in-depth understanding of how computer technology works and a look at what goes on 'behind the scenes'. As part of this course you will investigate computer programming.

Students should be proficient in mathematics as there is a strong mathematical element to the course, and they should have an interest in the technical aspects of computing. Students should also enjoy solving problems independently.

A screenshot of a code editor showing three Python test functions. The first function, 'test_three_should_return_fizz', calls 'fizzBuzz.filter(3)' and asserts the result is 'Fizz'. The second function, 'test_five_should_return_buzz', calls 'fizzBuzz.filter(5)' and asserts the result is 'Buzz'. The third function, 'test_fifteen_should_return_fizzbuzz', is partially visible at the bottom.

What will I learn?

<ul style="list-style-type: none">• Systems architecture• Memory & storage• Wired and wireless networks• Network topologies, protocols and layers• System security and system software• Ethical, legal, cultural and environmental concerns• Algorithms & programming techniques• Computational logic• Translators and facilities of languages• Data representation• Analysis, design & development• Testing, evaluation and conclusions	<p>These topics will be assessed primarily through the use of externally marked written assessments.</p> <p>Programming skills will be learnt and developed through the practical application of skills and working through a software development cycle. These skills may also be assessed through the use of written examinations.</p>
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What could my next steps be?

Once you have taken GCSE Computer Science, you can then progress to study the subject at A-Level and then onto a related university course.

With technology ever changing, there is a demand for professionals who are qualified in this area. If you want to go on to higher study and employment in the field of computer science, you will find that this course provides a superb stepping stone.

Studying GCSE Computer Science can also lead to careers in the designing, development and engineering of both leisure and applications software, product design, network management, computing consultancy and IT project management.

Mr Hassall (Head of Business and ICT) - hassalld@hallparkacademy.org.uk

Drama

Within this course, students will be provided with the opportunity to work on learning and developing both new and existing skills within drama/acting.

Skills will be developed in the following areas:

- Movement skills, body awareness and co-ordination, spatial awareness
- Blocking/choreography and interaction with other performers on stage and backstage, specific skills in use of props, mask and mime work, where necessary
- Rehearsing
- Improvisational skills used to develop character or situation, or to experiment with text-based material or stimuli
- Vocal skills of breath control, clarity, projection, interpretation and characterisation
- Use of text/script and how to interpret narrative, character, style, gestures and timing for performance
- Research into the work of others and select relevant influences on own work
- Evaluate the effectiveness of their own work and that of others in both the process of development and performance
- Explore how technical and design elements can enhance a performance
- Comply with relevant health and safety practices associated with correct preparation, performing and clearing up



What will I learn?

Component 1 – Devising Drama and Drama Portfolio	One full Play and live theatre question	40%
Component 2 – Scripted Performances		20%
Component 3 – Written Exam		40%

What could my next steps be?

Students could go on to complete an A-Level in Drama or a level 3 BTEC qualification in Performing Arts, which will provide the foundation for those wanting to study Performing Arts at University.

The experience and skills gained through performance and critical analysis in this course are transferable to a wide range of careers. The course is also useful if you wish to follow a career in the theatre whether on stage, behind the scenes or teaching the subject.

This course is a useful foundation for jobs into acting, teaching, law, the police force, community work, care, nursery work, nursing, presenting, media, arts developer, social work and a wide range of arts industries (worth a total of £84 billion per year in the UK alone).

Miss Mason (Head of Drama) - masonk@hallparkacademy.org.uk

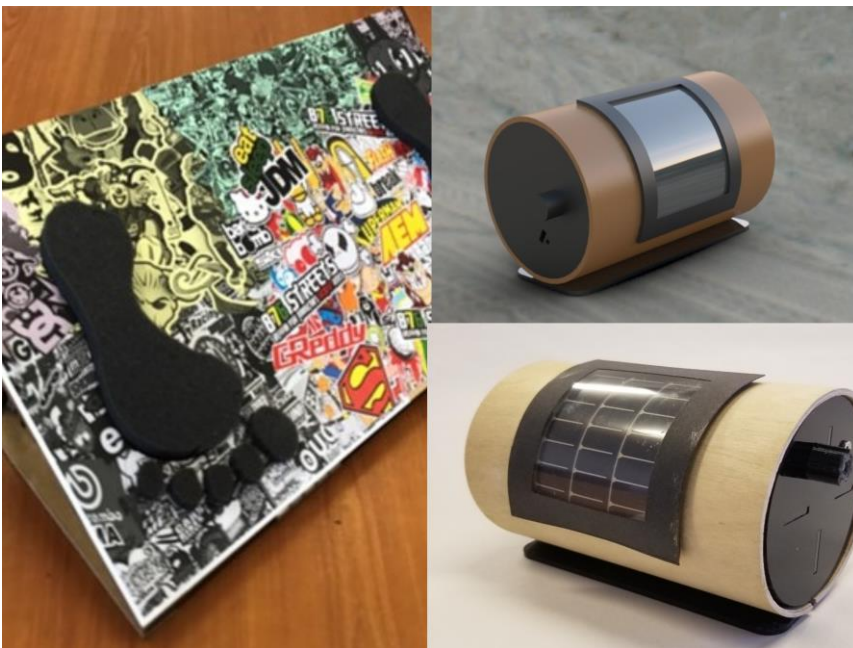
Design and Technology

What will I learn?

In this subject, students learn about how to design and make products from wood, metal and plastics. Students will learn various drawing, designing and making techniques including computer aided design and manufacture. This course would suit students who have good design skills, are able to communicate their designs and enjoy practical work.

How will I be assessed?

The assessment is based on a final examination worth 50% of the final marks. This examination covers subjects such as manufacturing methods, properties of materials, health and safety and also includes questions which involve designing. There is also a non-examined assessment element to the course which is worth 50% of the final marks. For this piece of work, you will be given a design brief on which to base your work. You will need to research the subject, produce a specification then design and make a product and evaluate it. At the end of this project you will have produced a design portfolio and a final product made of wood, metal or plastic.



What could my next steps be?

The skills learnt would benefit students looking for a career in design, manufacturing or involving practical skills. Product Design is available to study in our Sixth Form at A-Level, and at university at degree level.

Mr Mee (Head of Design and Technology) - meek@hallparkacademy.org.uk

Engineering (Vocational Award)


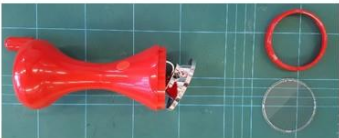


By choosing to study Engineering you will get to develop a wide area of skills and knowledge that are directly relevant to industry. Through work in the classroom, workshop and computer suite you will learn how engineering impacts upon all aspects of everyday life. From modelling in three dimensions to understanding how companies function and make money. This subject is the ideal starting point for those interested in a career in all branches of engineering. So, if you are always wondering how things work and have a natural desire to solve problems, then this is the subject for you.

What will I learn?





Engineering materials, scales of production and production processes, SMART materials, 3D CAD and CAM, environmental impact, quality systems and control, Design engineering plus much more.

One reason I took Ikea's Ijusa apart is because I wanted to work out how the wind up system worked.





To do this, it required me to use multiple tools like: Flathead screwdrivers, Phillips-head Screwdrivers. To start I took the front plastic off the Ijusa torch I did this by prying the front of the plastic with a flathead screwdriver doing this loosened the plastic allowing for me to take it off. Taking this off brought the Clear plastic plane of glass out and also loosened the plastic holding the LEDs too get this out I clipped the wires connected to the LEDs allowing me to detach the plastic holding the LEDs



Secondly, I used the flathead screwdriver too pry the back of the Ijusa torch off same as last time doing this loosened the back allowing for me to gently pull it off. Also, doing this allowed me to see inside the Ijusa torch when I did it, it showed the gears inside the product which when spun generates energy allowing for the circuit board to charge powering the lights this allowed me to take the lever off the back of the gear box also it allowed me to take the gears off the stand they were on. Too take this off I had to use an extremely small Phillips-head screwdriver. Doing this allowed me to remove the gear box and identify the circuit kept inside.




With both sides removed it allowed me to loosen the inside screws doing this allowed me to remove the green charging circuit and cut the wires allowing me to remove it and get a better look on the inside.



Design possibilities: Work of others

Doing all of this allowed me too reuse one of the parts this part allowed me to store charge from the solar panels and allow the radio to work for a bit whilst there is no sun light. Also doing all of this allowed me too see how the electronics would fit inside and took inspiration by making it as compact as I could, this allowed me to add extra electronics if needed it also gives space for the wires to be sorted into.



How will I be assessed?

You will be assessed throughout Year 10 and 11 by completing a series of assignments, plus a 3D practical exam.

What could my next steps be?

Students who study this course often choose to continue their education at Sixth Form and then on to university. However, just as many students use it as an opportunity to get a job or apprenticeship in the industry, and then continue to study on a day release basis.

It is a challenging course with a great deal of commitment expected from you, but the course is interesting and can lead to a very successful career path.

Mr Mee (Head of Design and Technology) - meek@hallparkacademy.org.uk

Food Preparation and Nutrition

What will I learn?

- Develop practical cooking skills
- Develop a thorough understanding of nutrition, food provenance and the working characteristics of food materials
- Learn how products are developed in the food industry
- Complete a food investigation
- Create a written portfolio to demonstrate planning, preparation, cooking, and presentation of food and application of nutrition
- Prepare, cook and present a final menu of three dishes within a single period of no more than three hours, planning in advance how this can be achieved



You will have studied the following themes and developed the following skills:

- Food, nutrition and health
- Food science and safety
- Food choice and provenance
- Creativity
- Food design
- Team work
- Evaluation

How will I be assessed?

There will be one exam for this qualification, which will assess your knowledge of the theory behind food preparation and nutrition. The second part of the assessment will be non-examination assessment and will consist of two tasks involving practical work:

Task 1: Students will carry out an investigation into the scientific principles that underpin the preparation and cooking of food. This task will provide you with an opportunity to demonstrate your knowledge and practically apply your understanding of the science behind cooking. You'll practically investigate ingredients and explain how they work and why.

Task 2: Students will plan, prepare, cook and present a 3-course menu. This task will provide you with an opportunity to cook up a storm and showcase your creativity and cooking skills. You might make a street food menu, create delicious tapas dishes or cook up a menu for a student on a budget.

Course Specification		Title	Style of Assessment
	Unit 1	Written Paper	Exam (worth 50%)
	Unit 2	Task 1: Food investigation Task 2: Food preparation assessment	Externally assessed coursework (worth 50%)

What could my next steps be?

Upon completion of this course, students will be qualified to go on to further study Food and Nutrition, or embark on an apprenticeship or full time career in the catering or food industries.

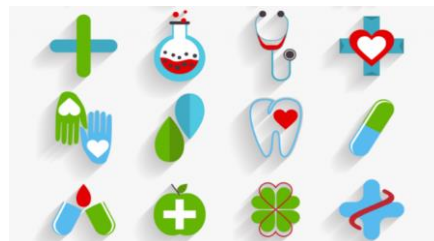
Mrs Norridge (Assistant Headteacher and D&T Teacher) - norridgem@hallparkacademy.org.uk

Ms Wain (SENCO and D&T Teacher) - waink@hallparkacademy.org.uk

BTEC Health and Social Care

Did you know that by 2034 it is estimated that 2.1 million people will be employed in the Health and Social Care sector? Level 2 Health and Social Care is equivalent to one GCSE and allows students to gain a broad understanding of the sector. Studying Health and Social Care at Key Stage 4 will complement GCSE study through providing an opportunity for practical application alongside conceptual study. There are also strong opportunities for post-16 progression in this important sector

This course has one examined unit and two internally assessed units. It is suitable for students who prefer an approach based more on non-examined assessment. As a result, this requires students to commit to producing high quality work throughout the course and relies upon students taking ownership for their learning right from the start of the course.



What will I learn?

Students will study three units:

Human lifespan development – Students will explore different aspects of growth and development and the factors that can affect this across the life stages. They will explore the different events that can impact on individuals' physical, intellectual, emotional and social (PIES) development and how individuals cope with and are supported through changes caused by life events. **(Non-examined assessment)**

Health and Social Care Service and Values – Students will explore health and social care services and how they meet the needs of service users. They will also study the skills, attributes and values required when giving care to ensure a person-centred approach. **(Non-examined assessment)**

Health and wellbeing – Students will investigate positive and negative factors that can affect an individual's health and wellbeing e.g. illness, diet, exercise, smoking, alcohol and drug misuse. The students will record health measurements such as blood pressure, peak flow and BMI and interpret the data and the impact this has on health and wellbeing. Students will develop a health plan to meet individual health needs. **(Examination)**

How will I be assessed?

Of the three units covered, one is assessed by an exam which is externally marked and the other two units are assessed by your teachers then externally moderated. The non-examined assessment element of the qualification involves students completing a variety of different tasks which allow them to demonstrate their knowledge of what they have learned. All units completed in this qualification contribute toward the students' final grades.

What could my next steps be?

The qualification enables students to progress on to further study in Health and Social Care Level 3, delivered in our Sixth Form.

Mrs Talmey (Head of Social Science Faculty) - etalmey@hallparkacademy.org.uk

Music

GCSE Music aims to develop students' performing, composing and appraising skills through the study of a wide range of musical styles. Hall Park Academy partially or wholly subsidises vocal/instrumental tuition for all GCSE Music students.

In return, we expect students to practice regularly and contribute to the wider musical life of the school, for example through concerts and assemblies.

What will I learn?

Students will learn how to:

- develop performing skills individually and in groups
- develop composing skills to organise musical ideas and make use of appropriate resources
- broaden musical experience and interests, develop imagination and foster creativity
- recognise different instruments, genres, styles and musical traditions, and develop some awareness of musical chronology
- evaluate their own music and the music of others
- engage with and appreciate the diverse heritage of music, in order to promote personal, social, intellectual and cultural development.

How will I be assessed?

Component	Overview	Assessment	Weighting
Performing	<ul style="list-style-type: none">• Perform a minimum of two pieces (at least one ensemble) for a duration of 4-6 minutes	Non-exam assessment	30%
Composing	<ul style="list-style-type: none">• Compose one free composition• Compose one composition to a brief	Non-exam assessment	30%
Appraising	<ul style="list-style-type: none">• Answer eight questions on four areas of study: musical forms and devices; music for ensemble; film music; pop music• Study 2 set works – J.S. Bach: Badinerie; Toto: Africa	1 hour 15 minutes examination	40%

What could my next steps be?

In the future, creativity will be the dominant global currency. As more and more jobs become automated, creativity will be the most important workplace skill to help businesses survive and thrive. Possible routes following the study of GCSE Music include:

- A Level, BTEC or Level 3 vocational qualifications in Music, Music Technology or Performing Arts
- apprenticeships within the music and other creative industries, which contribute over £100 billion to the UK economy each year
- employment within a wide range of sectors that value the knowledge, skills and understanding developed by musicians.



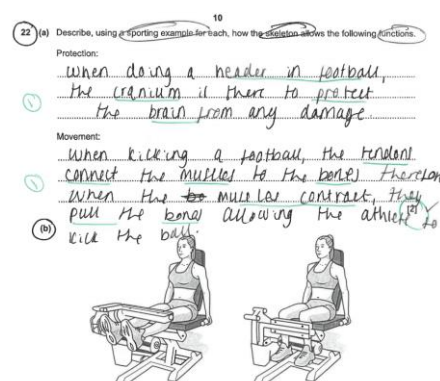
Mr Cardwell (Head of Expressive & Performing Arts) - cardwellg@hallparkacademy.org.uk

GCSE Physical Education

GCSE Physical Education will allow students to enjoy and understand the benefits of living a healthy and active lifestyle. It will allow students to learn about Physical Education through a range of different contexts and the impact it has on everyday lives. The qualification is made up of both theory and practical elements.

What will I learn?

To be successful in this qualification, students will need to have a keen interest in sport. This will involve keeping an up to date insight into various sporting events and competitions. It is vitally important all students participate in sport at both school based, and community based extra-curricular clubs. Finally, students will need to be motivated to study the theory behind sport and healthy lifestyles.



40% practical	60% exam (theory)
<p>You will be assessed as a player / performer in three sports:</p> <ul style="list-style-type: none"> one individual sport e.g. singles badminton, gymnastics etc. one team sport e.g. rugby, netball etc one more either individual or team sport. <p>Plus: non-examined assessment - evaluate and improve performance</p>	<p>Example topics you will study:</p> <ul style="list-style-type: none"> Components of fitness Diet Media in sport Drugs in sport Sports psychology Sponsorship Training methods Cultural / social factors affecting participation in sport Risks in sport Injury in sport Effects of exercise on the body Factors affecting participation in sport

What could my next steps be?

After you have studied GCSE Physical Education, we suggest students go on to study A-Level Physical Education which we currently offer in our Sixth Form. These courses can set students up for many successful and interesting careers such as sports medicine (e.g. physiotherapists), sports scientists, sports management, sports marketing and business, sports development officers, coaches, performance analysts, fitness instructors, and teaching, to name a few.

Mrs Scott (Head of PE) - scotti@hallparkacademy.org.uk

Core Religious Studies



Core Religious Studies introduces students to the world's largest two religions (Christianity and Islam) and students will also learn about how people are influenced to act in different areas of human life. All students will take this one-hour a week course that will lead to a short course GCSE qualification at the end of Year 10. This is a good way to learn more about the world and develop important interpersonal skills.

By taking the GCSE exam in Year 10, our students have the experience of going through the process of learning, revising for, and sitting a real external exam before Year 11. We prepare them for this experience in the same way as we would for all other GCSE exams, with revision sessions and mock exams. By doing this our students develop an understanding of the revision skills which will help them in Year 11 studies, in addition to achieving a nationally recognised qualification in Religious Studies.

The lessons introduce two world religions in detail and ask students to consider a range of opinions on topical moral issues. Students will engage with the material on a personal level as well as showing an understanding of, and respect for, a range of different religious and non-religious beliefs and opinions. We will discuss topical events that appear in the news and students will develop a deeper understanding of the underlining causes for world events.

What will I learn?

Unit 1 – Christianity: This is the study of key Christian beliefs including how God is understood, the afterlife, the role of Jesus and salvation, and how these beliefs have come about as well as how they continue to have a great deal of influence on individuals, communities and societies in today's world. Students will read parts of the Bible, in particular the New Testament, and learn to understand the moral and theological message of Jesus Christ and the Christian Church.

Unit 2 – Islam: You will learn about Islam and where Islam came from., including the life of Muhammad, different expressions of Islam today, God in Islam, the idea of Predestination and the afterlife. You will read parts of the Qur'an and engage with questions that relate to what it is like to be a Muslim in the UK today.

Unit 3 – Relationships and families: Students will apply their knowledge of the Christian faith to various themes in the topic *Relationships and Families*, learning to express their own opinions and engage with others in a respectful and reasoned way. These themes include 'sex, marriage and divorce' and 'families and gender equality'. Lessons will treat all consenting relationships as equally valid and students will examine how British values have formed the tolerant, liberal society of today.

Unit 4 - Religion, peace and conflict: This unit will examine contrasting teachings and attitudes to violence and terrorism, the causes of war and Just War Theory. In particular, students will focus on the ongoing conflict in Israel/Palestine and learn about it in a historical and religious context. They will also learn about the persecution of Jews by the Nazis in WWII. Students are asked to consider such questions like whether a Just War is possible in an age of weapons of mass destruction.

Mr Fenby (Head of Humanities) - fenbyj@hallparkacademy.org.uk

Core Physical Education (PE)

All students in Year 10 and 11 participate in one lesson per week of Core Physical Education (PE).

What will I learn?

Students will not only study sports previously covered in key stage 3, but they will also get the opportunity to attempt new activities, for example handball, basketball and table tennis. The primary aim of Core PE is to find ways in which students will feel engaged and excited by sport.

Students in Core PE have opportunities to participate in a variety of roles such as referee, official and leader, as well as performer, to help develop qualities of self-confidence, leadership and organisational skills. Regulation PE kit continues to be compulsory. Core PE is not examined.

Mrs Scott (Head of PE) - scotti@hallparkacademy.org.uk



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