

# Ark Ayrton Horizons Curriculum Offer



## Our Creative Curriculum

At Ark Ayrton we pride ourselves on the development of individuals by promoting a sense of curiosity and excitement about the world and encouraging motivation and resilience. We offer a creative cross curricular, thematic approach which is imaginative, exciting and actively contributes to the learning experiences of all our children.



Over a 2-year cycle, the whole school follows 6 overarching termly themes, for example 'Saving the World', then each year group phase explores a different focus within this theme, for example 'Rainforests' or 'Heroes and Villains'. To make the learning relevant and engaging, cross-curricular links are made throughout the topic and children are encouraged to apply skills from all areas to complete real-life challenges and investigations. A variety of teaching strategies are employed with an emphasis on creativity to motivate and encourage a life-long love of learning. We are well placed to make the most of all that Portsmouth and the surrounding areas have to offer and we plan frequent trips to museums, galleries, zoos, castles, farms and theatres, to enrich and broaden the curriculum. Where appropriate we encourage children to take responsibility for their own learning by completing homework projects based on topic themes.

Ark Ayrton Topic Overview Cycle 1			
	Year 1 and 2	Years 3 and 4	Years 5 and 6
Autumn	Forwards and Backwards		
	London's Burning: The Great Fire and Guy Fawkes	Inventions across the ages: Stone Age, Iron Age, Bronze Age	Local Study: World War II
Trips	Fireworks Display Local Fire Station	Butser Ancient Farm	Tangmere Museum D-Day Museum
Spring 1	Explorers and Exploring		
	Space	Antarctica/Arctic	Amazon
Spring 2	Exploring Shakespeare and well-loved authors		
	Year 1s – Julia Donaldson Year 2s – Roald Dahl	Macbeth/Richard III	Midsummer Night's Dream and Twelfth Night
Trips	Intech and Planetarium	Indoor skiing centre/Ice-rink Porchester Castle	The Living Rainforest
Summer	Saving the World		
	Rainforests	Knights and their Quests	Heroes and Villains
Trips	Marwell Zoo	Arundel Castle	Harry Potter Studios

Ark Ayrton Topic Overview Cycle 2			
Cycle 2	Year 1 and 2	Years 3 and 4	Years 5 and 6
Autumn	The Great, the Bold and the Brave!		
	Pirates	Romans	Vikings
Trips	Gosport Ferry Dockyard	Fishbourne Roman Palace Pizza Express (make your own pizzas)	Viking longboat day Sailing at Portsmouth Activity Centre
Spring	Treasures		
	Dragons	Victorians	Kings and Queens
Trips	Legoland Windsor	Osbourne House	Globe Theatre, Tower of London and Residential
Summer	Let's Pretend!		
	Toys	Egyptians	Hollywood
Trips	Portsmouth Museum Canoe Lake	British Museum	Cinema

English and Maths skills are taught daily to ensure our children become competent and proficient learners. English and Maths are also embraced through topic work to ensure children have the opportunity to tackle real life, relevant situations with increased confidence.



We pride ourselves on our broad and balanced curriculum and provide numerous opportunities for our children to be involved in representing our school in concerts, football tournaments and debating competitions. We also provide a range of after school activities, such as Cooking Club, Glee Club and Reading

Club. Our music club and curriculum provision is enhanced by a specialist teacher who works with every year group over the course of a year and has supported groups of children to take part in county, as well as national, concerts. Visits to the local library are built in to our half-termly timetables and we provide exciting opportunities to learn through theatre groups, visiting authors and poets and also hold regular themed days that link to British Values, as well as topic dress up days.



## Computing



At Ark Ayrton Academy we provide a high-quality computing education in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Our computing curriculum aims to ensure that pupils become digitally literate and are able to use and communicate their ideas and information safely within the digital world.

Our ICT curriculum is based on units of work from 'Switched on Computing' by Rising Stars, planning provided by County specialists. The units have been personalised for the needs of our school to ensure lessons are purposeful within our topic theme. Each class has a weekly computing slot however use of ICT is also integrated across the curriculum with each year group having access to its own laptop trolley and tablets. The computing and programming elements of the curriculum are taught using the software Scratch. E-safety is embedded across all learning and each class is to set up their own blog this year.



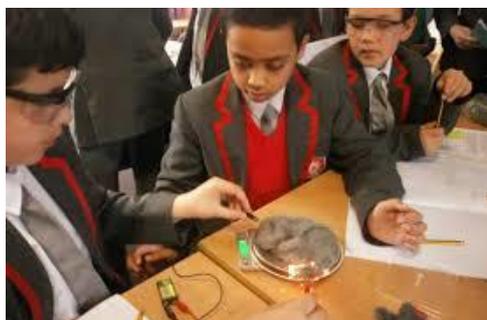
## ICT Long-term Plan

Cycle 1	Years 1 and 2	Years 3 and 4	Years 5 and 6
Autumn Term	2.3 We are Photographers (Taking, selecting and editing digital images) <b>Web, Tablets</b>	3.1 We are programmers (Programming an animation) <b>Scratch, PowerPoint</b>	5.2 We are cryptographers (Cracking codes) <b>Scratch</b>
	1.6 We are celebrating (Creating an Xmas card electronically) <b>Power Point, Word, Clicker 6, Paint</b>	3.2 We are bug fixers (Finding and correcting bugs in programs) <b>Scratch, PowerPoint</b>	
Spring Term	2.1 We are astronauts (Programming on screen) <b>Scratch</b>	3.6 We are opinion pollsters (collecting and analysing data) <b>Excel, Word</b>	5.5 We are bloggers (sharing experiences and opinions) <b>Blogger (online), Movie Maker</b>
	1.5 We are storytellers (Producing a talking book) <b>PowerPoint, IWB software</b>	3.3 We are presenters (Videoing performance) <b>Movie Maker</b>	
Summer Term	1.3 We are painters (Illustrating and eBook) <b>Tux Paint, Paint, IWB software, Word</b>	4.6 We are meteorologists (Presenting the weather) <b>Excel, PowerPoint, IWB software</b>	5.1 We are game developers (Developing an interactive game) <b>Scratch</b>
	1.4 We are collectors (Finding images using the web) <b>Web, PowerPoint, IWB software</b>		

Cycle 2	Years 1 and 2	Years 3 and 4	Years 5 and 6
Autumn Term	2.4 We are Researchers (Researching a topic) <b>Web, PP</b>	3.1 We are programmers (Programming an animation) <b>Scratch, PowerPoint</b>	5.6 We are architects (Creating a virtual space) <b>SketchUp</b>
	1.2 We are TV chefs (Filming the steps of a recipe) <b>Paint, Movie Maker</b>	3.5 We are communicators (Communicating safely online) <b>Email System</b>	
Spring Term	2.1 We are astronauts (Programming on screen) <b>Scratch</b>	4.1 We are software developers (Developing a simple educational game) <b>Scratch</b>	5.3 We are artists (Fusing geometry and art) <b>Scratch</b>
	2.6 We are Zoologists (Recording Bug Hunt data) <b>Excel, IWB software, Google Maps</b>		
Summer Term	1.1 We are treasure hunters (Using programmable toys) <b>Beebots</b>	4.2 We are toy designers (Prototyping an interactive toy) <b>Scratch</b>	5.4 We are web developers (Creating a web page about cyber safety) <b>Google, WordPress</b>
	2.2 We are games testers (Exploring how computer games work) <b>Scratch</b>	3.3 We are presenters (Videoing performance) <b>Movie Maker</b>	

## Science

Science is a fascinating subject that allows children to explore the world around them, ask big questions and begin to think like scientists would in the real world. At Ark Ayrton we focus on both teaching scientific knowledge and developing pupils' practical and investigation skills. We aim to develop children's scientific knowledge



by using our local and wider environment to enhance the learning and bring learning to life. Each year group will cover between four and six science units throughout the year. Most units include a pupil-led investigation which will allow pupils to take the lead, develop their scientific thinking and apply the knowledge that they have learnt to a range of practical situations. The aim of this is to encourage the children to think as scientists.

Throughout Key Stage One and Two, units are revisited and built on so that key concepts are consolidated. Science is a core subject that we combine very effectively with many other subjects including Design and Technology, English, Maths and Geography to create exciting and engaging topics. We aim to develop pupil's scientific thinking and use of scientific language so that when children move onto Key Stage Three they have a strong base of core scientific ideas and they are already confidently thinking like scientist.

### Science Long-term Plan

Cycle 1	Years 1 and 2	Years 3 and 4	Years 5 and 6
Autumn Term	Light Materials	Rocks States of matter	Properties and changes of materials
Spring Term	Space and planets Materials	Living things and their habitats and animals including humans	Living things and their habitats and animals including humans
Summer Term	Animals including humans Plants	Light	Evolution and inheritance

Cycle 2	Years 1 and 2	Years 3 and 4	Years 5 and 6
Autumn Term	Everyday materials	Plants Sound	Forces
Spring Term	Living things and their habitats	Forces and magnets	Light
Summer Term	Seasonal changes	Electricity	Electricity



## Physical Education

At Ark Ayrton we place great value on Physical Education (PE) and it is taught weekly to all year groups. Through gym, dance, athletics and swimming, learning covers a range of concepts with a major focus on the progression of key movement skills and the introduction and participation in age appropriate

sports. There is an overarching aim of developing personal fitness and a positive view towards both physical activities and competitive challenges. We have recently had training on 'Real PE' and therefore teachers ensure that Physical Education develops the following skills within each child: Creativity, physical, social, personal, cognitive and health and fitness.



Beyond explicit PE sessions, we strive to make health, fitness and physical activity a part of our wider ethos. Equipment and supervision are provided to facilitate active play and links are made with wider subjects where appropriate (including Personal, Social and Health Education and science). As a school we are active members of the 'Golden Mile' scheme whereby every child and member of staff walk or run a mapped route for 10 minutes everyday. Miles completed are tallied and certificates awarded as necessary to very proud children.

## SMSC

Spiritual, moral, social and cultural understanding (SMSC) is integral to our school curriculum and ethos and is embedded through day to day classroom activities such as discussion and circle times, through assemblies, curriculum content and skills. We have an expectation of good manners and behaviour and this is evident in the relationships



established between children themselves and between children and adults in our school. We have a School Council with representatives from every class and we regularly raise money for a variety of charities through bake sales, dress up days and fetes. We celebrate achievements across a



broad and balanced curriculum including reading, writing and maths, sport, art, behaviour and social development.

## Religious Education

Religious Education is taught discreetly at Ayrton and is an enlightening subject that allows children to explore the different cultures and diverse communities that live within the world.

Ark Ayrton follows the programmes of study outlined in ‘*Living Difference*’, the locally agreed syllabus for Hampshire. Through this syllabus children explore a different key concept each half term, following a conceptual enquiry approach. In each unit children follow the same cycle of enquiry: communicate, apply, enquire, contextualise and evaluate.

Children are introduced to different groups of concepts as follows:

- concepts common to all human experience
- concepts shared by many religions
- Concepts specific to religions.

These concepts are supported through our daily collective worship, by visits from the church and themed assemblies delivered by teachers.



RE Long-term Plan			
Cycle 1	Years 1 and 2	Years 3 and 4	Years 5 and 6
Autumn 1	Thankfulness – Celebrating harvest	Message – Jesus’s teaching and message	Belonging – What it means to live life as a Muslim
Autumn 2	Journey’s end - Nativity journeys	Angels	Interpretation – Christmas: the two birth narratives
Spring 1	Remembering –Passover	Good and Evil – Holi	Stewardship – Creation
Spring 2	Welcoming – Palm Sunday	Suffering – Key events of Holy Week	Justice – Stories of Justice
Summer 1	Belonging – Belonging in Judaism	Sacred Place – Places of worship	Sacred Place – Places of Worships
Summer 2	Authority – Events in Jesus’ life	Protection – Raksha Bhandan	Umma – What it means to live life as a Muslim

Cycle 2	Years 1 and 2	Years 3 and 4	Years 5 and 6
Autumn 1	Symbol – Bread as a symbol	Temptation – Making Choices	Laws – Jesus the law breaker
Autumn 2	Light as a symbol – Advent and Hannukah	Holy – Mary, mother of God	Prophecy – The Magi
Spring 1	Change – People Jesus Met	Myth	Ritual – What it means to live life as a Muslim
Spring 2	Sadness to happiness – Key events of Easter	Ritual – Paschal candle	Resurrection – The empty cross
Summer 1	Authority – Bible	Devotion	Ceremony – Death ceremonies
Summer 2	Remembering – Shabbat	Symbol – Stones as symbol	Peace (Islam) - What it means to live life as a Muslim