

# Year 6

# Curriculum Guide

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2022 - 2023



James Allen's Junior School

# CURRICULUM INFORMATION

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## ENGLISH

The English Curriculum is based on the 11+ entry and the Key Stage II National Curriculum requirements. The curriculum is presented in a lively and stimulating way and our aim is to extend each child's potential in all areas of the subject.

### **Year 6 pupils by the end of the year should be able to:**

- Write in a variety of forms for a range of purposes and audiences.
- Give a well-organised and sustained account of an event, personal experience or activity.
- Prepare and deliver presentations individually and in groups.
- Contribute to and respond constructively in discussion and debates, advocate and justify a point of view.
- Read aloud expressively, fluently and confidently from a range of familiar literature.
- Read silently with sustained concentration.
- Respond constructively to a variety of written texts orally and in writing.
- Select information from a wide range of reference materials.
- Have some understanding of developing narratives for different mediums and genres.
- Structure and punctuate work effectively.
- Write timed essays and comprehension passages in preparation for 11+ exams.
- Spell words of greater complexity.
- Broaden vocabulary.
- Check work for spelling and presentation errors.
- Produce neat cursive handwriting.

Assessment is continuous but formal written papers are taken in the Autumn Term and in the Summer Term.

## DRAMA

All girls have a weekly drama lesson. The lessons are designed to enhance the girls' confidence throughout their four years and teach them acting skills which culminate in a Year 6 play. Topics may be revisited each year in order to consolidate prior knowledge and extend skills, abilities and range. The girls watch and assess each others work and are asked to offer constructive feedback to their peers. Year 6 explore some Shakespeare in an active and age appropriate way. Year 6 Play performed in the Prissian Theatre, JAGS.

## SPEECH & DRAMA

(£ Optional Extra)

- To encourage self-confidence in the use of the spoken word.
- Girls are taught in a small group by a drama specialist.
- Speech and projection exercises.
- Oral presentations: solo. Children are encouraged to speak freely in an unscripted manner, always with the help of visual aids.
- Rhythmic speech and vocal freedom explored through poetry.
- Discussion of vocabulary and verbal dynamics practised in poetry and drama.
- Improvisation to promote imaginative ideas and vocal freedom.
- Character development using short scripted scenes.
- Pupils read aloud from a favourite book and learn the skills of timing, expression and fluency. They are also encouraged to develop their use of sustained eye contact so that they share fully with their listeners.
- All pupils are entered for the Level 1 Grade 1 English Speaking Board examination in March. Preparation for this examination takes place in the Autumn Term.

# MATHEMATICS

The Mathematics Curriculum is in alignment with Key Stage 2 National Curriculum requirements. Throughout our learning we use concrete resources and pictorial examples to build a deeper understanding of the concepts for all pupils, which they can then relate to the abstract formal methods. We aim to provide girls with a sound foundation of the concepts taught, from which we use problem-solving and investigations to develop and extend their skills and understanding.

## Number, Place Value & 4 Operations

- Read and write any number up to and including millions
- Use mental and formal written methods for the four operations
- Use rounding to find estimates for answers
- Roman numerals
- Negative numbers
- Order of operations

## Fractions

- Simplify fractions
- Fractions on a number line
- Compare and order
- Add and subtract fractions
- Multiply fractions
- Divide fractions by integers
- Fraction of amount

## Decimals

- Three decimal places
- Multiply and divide by 10, 100, 1000
- Multiply and divide decimals by integers
- Decimals as fractions
- Fractions to decimals

## Percentages

- Fractions to percentages
- Equivalent FDP
- Order FDP
- Percentage of amount
- Percentages – missing values

## Ratio

- Ratio and fractions
- Calculating ratio
- Using scale factors
- Calculating scale factors
- Ratio and proportion problems

## Statistics

- Line graphs
- Circles
- Pie charts
- Averages & range

## Measurement

- Area and perimeter
- Area of a triangle
- Area of a parallelogram
- Volume of a cuboid
- Metric measures
- Imperial units

### **Algebra**

- Find a rule
- Forming expressions
- Substitution
- Formulae
- Find pairs of values
- Enumerate possibilities
- Form and solve equations
- Simultaneous equation style questions

### **Geometry**

- Co-ordinates
- Transformations
- Tessellations
- Polygons
- Shape properties – 2-D & 3-D shapes
- Draw shapes accurately
- Angles in regular polygons
- Construct triangles
- Draw nets of 3-D shapes

# SCIENCE

The Science Curriculum covers the three disciplines of biology, chemistry and physics, as well as including many opportunities to develop practical and enquiry skills. Lessons take place in a fully equipped science classroom, where pupils are able to gain plenty of hands-on experience with a range of scientific equipment. The Year 6 girls have two one-hour lessons each week.

The following topics will be taught during Year 6:

## **Working Scientifically**

Working scientifically is a set of ongoing skills that are taught throughout the topics listed below.

- Planning different types of scientific enquiry to answer questions
- Making observations and taking measurements with accuracy and precision
- Recording and presenting data
- Presenting scientific information as labelled diagrams, classification keys, tables, scatter graphs, bar and line graphs.
- Reporting on findings from enquiries verbally and in writing
- Using results to draw conclusions, identify and explain causal relationships
- Describing the degree of trust in the results of an investigation
- Using results to make predictions to set up further comparative and fair tests
- Identifying scientific evidence that has been used to support or refute ideas or arguments

## **Evolution and Inheritance**

- That living things have changed over time
- Fossils provide information about living things throughout Earth's history
- Living things produce offspring of the same kind, but normally they vary and differ from their parents
- Animals and plants are adapted to their environment and how adaptation may lead to evolution

## **Light**

- How light travels
- Why shadows have the same shape as the object that casts them
- How we see things
- What happens when light hits different materials
- How light is reflected by a plane mirror

## **Chemical reactions**

- Identify chemical and physical changes
- Investigate rusting
- Investigate combustion
- Testing acids and alkalis
- Investigate the reaction between acid and bicarbonate of soda

## **Forces**

- Measuring forces
- Forces acting on a falling object
- The effects of air resistance, water resistance and friction
- How mechanisms such as pulleys, levers and gears can allow a smaller force to have a greater effect

## **Microorganisms**

- What microorganisms are and how they can help and harm us
- How medicine can help the body fight microorganisms
- Food preservation
- Preventing and treating infection



## RELATIONSHIPS AND SEX EDUCATION

Relationships and Sex Education is taught to the Y6s in the second half of the academic year.

### Introduction to Sex Education

- Puberty
- New life
- Pregnancy
- Relationships

## COMPUTING

Computing is taught in our state-of-the-art Computing Suite. The Year 6 girls have a one hour lesson per week, taught in groups of twelve. There are opportunities to use a variety of educational software as well as SLR digital cameras, voice recorders, Makey Makeys, Raspberry Pi, floor robots, Crumbles, programmable Lego, VR headsets, 360 camera and the 3D printer. Since Computing is a cross-curricular subject, some of the skills will be used and/or taught within other subjects through the use of LearnPads, iPads and laptops.

### General ICT Skills

- Digital Architects/Artists
- Internet 101/ Network Experts
- Podcasting
- Sensing and Logging & Databases
- Photography
- Maker Club



- Online Safety

## HUMANITIES

### HISTORY

In Year 6 we work on further developing the skills of questioning, research, and analysing evidence in a logical manner. These are all things which encourage the girls to look at the world around them with curiosity and interest.

Topics covered:

- The Atlantic Slave Trade
- The Titanic
- World War II

#### KEY SKILLS

- Examine and analyse evidence.
- Use a wide range of historical vocabulary.
- Use a range of research techniques.
- Use a range of both primary and secondary sources of evidence.
- Plan, research and complete a project in a timely fashion.
- Pose their own historical questions.

### GEOGRAPHY

#### KEY SKILLS

- Ask geographical questions.
- Collect, record and analyse evidence.
- Use a wide range of specific geographical vocabulary.
- Use a range of fieldwork techniques.
- Use a range of secondary sources of evidence.
- Use atlases, globes, maps and aerial photos.
- Use and make maps at a range of scales.

- Use 6 figure grid references, keys and scale.



## FRENCH

French is taught in half classes throughout the school and each class has two lessons per week.

Homework is once a week and will include either the learning of vocabulary and structures, reading booklets in French, researching a topic, illustrating texts or short written tasks.

We follow the course Expo 1, Loustics 2, Bout de Gomme, etc... supplemented by a wide range of graded readers, interactive software, audio and video material. The French teaching room is equipped with a computer and an interactive whiteboard.

An extensive range of topics is covered during the year and French is used as the medium of communication during lessons.

The main emphasis will be on developing confidence and good pronunciation by means of the acquisition of new vocabulary and structures, as well as enjoyment of the language through the use of the computer, interactive whiteboard, games, songs, stories, poems, videos, role play and playlets



# MUSIC

Music is taught very much as a practical subject, with activities consisting of performing, composing, listening and appraising. Each pupil has two lessons per week, one with the whole class and one as part of a half-group.

## AUTUMN TERM

- Pop music: structure, form, chord progressions
- Playing chord progressions on xylophones
- Christmas songs

## SPRING TERM

- Composing pop songs in Garageband

## SUMMER TERM

- Year 6 show songs

# PHYSICAL EDUCATION

Pupils have two double period lessons a week using the facilities at the Prep and JAGS Sports Club. There are many opportunities for the pupils to take part in extra sport through lunchtime and afterschool clubs and / or being asked to be part of squads. Most squad training is at lunchtime and, for girls selected, fixtures usually take place on Mondays and Wednesdays after school. Very occasionally there are fixtures / tournaments during the school day / on the weekend but those involved will be given plenty of advanced notice.

All pupils at the Prep take part in Inter-House Sporting Events across the year and these include:

- Football (Autumn Term)
- Netball (Spring Term)
- Swimming (Spring Term or Summer Term)
- Cricket (Summer Term)
- Sports Day (Summer Term)

## Autumn/Spring Terms

- Hockey / Netball / Football
- Gymnastics/Dance.
- Swimming.

## Summer Term

- Cricket.
- Athletics.
- Tennis.
- Swimming.
- Games (Hockey, Netball, Football, Cricket)
- Gymnastics
- Dance
- Athletics
- Tennis



- Swimming (All Year)

All pupils swim at the pool at JAGS and they have one swimming lesson every two weeks for one double period. There are opportunities for pupils to swim at other times in the week by attending lunchtime swim clubs and / or being asked to be part of the swim squad which train before and after school and race in galas predominately on Wednesdays after school.

## ART

All girls have one double lesson a week, in half classes in the specialist, Art room. They work through a series of linked activities within larger projects, carefully designed to stimulate and ensure success and enjoyment. Some activities respond to current events or exhibitions and some repeat from year to year. However, they all fall within a rolling annual framework which targets specific fields of Art, Craft and Design, and builds progressively upon skills and techniques. The girls make regular use of their sketchbooks, started in Year 5, to record, develop and evaluate their own work and to appreciate and comment on the work of artists, craftspeople and designers. The girls continue to add their work to portfolios, which they take with them at the end of the year.



## DESIGN & TECHNOLOGY

All girls have one double lesson per week within a specialist DT workshop. Design and Technology lessons are geared towards providing stimulating and challenging tasks that will prepare the student for a lifetime of learning, exploring and problem solving. Pupils learn to think and intervene creatively to improve quality of life. They learn to explore values and attitudes to their made world; critically analyzing how we live, work and interact within it. This process encourages them to become independent and creative problem solvers, as individuals and members of a team.

The formative years of Design and Technology emphasizes developing practical design and make skills, helping students gain confidence in their own creativity. Students develop knowledge and understanding of materials and components; systems and control; and structures. They learn to combine practical skills with an understanding of aesthetics, function, industrial practices and social and environmental issues. As they do so, they reflect on and evaluate present and past design and technology, its uses and effects. Through this all students can become discriminating and informed users and innovators of products.

As they progress, they will then able to tackle increasingly complex problems and tasks involving a variety of media and processes from the more traditional materials through to electronics and computer-aided design and manufacture. Pupils learn to look for needs, wants and opportunities and then respond to them by developing a range of ideas and making products and systems. They develop a critical understanding of technological processes, products and their manufacture, and how they contribute to our society. Involvement with industry and participation in competitions is strongly encouraged, all in endeavour to prepare pupils for making significant and worthwhile contribution to life and work in a technological society.

## PSHCE (PERSONAL, SOCIAL, HEALTH, CITIZENSHIP AND ECONOMIC EDUCATION)

### JIGSAW Modules

This year JAGS Pre-Prep and Prep school are excited to be using a new Scheme of Work titled 'Jigsaw' for PSHCE lessons, Form times and to support pastoral provision. Jigsaw is a whole-school PSHCE and Wellbeing approach that provides children with relevant learning experiences for their age group to help them with life experiences and to develop positive relationships with themselves and others.

RSE statutory curriculum guidance is embedded into the scheme More information about Jigsaw can be found at: [https://f.hubspotusercontent20.net/hubfs/20064624/UK-3-11-Snapshot-Overview-Map%20\(1\).pdf?\\_hstc=&\\_hssc=&hsCtaTracking=3c57054b-6cff-40b3-8949-ddbdf3675df%7Ceddb4b90b-1f85-42b3-b8ed-7b3d93f42c43](https://f.hubspotusercontent20.net/hubfs/20064624/UK-3-11-Snapshot-Overview-Map%20(1).pdf?_hstc=&_hssc=&hsCtaTracking=3c57054b-6cff-40b3-8949-ddbdf3675df%7Ceddb4b90b-1f85-42b3-b8ed-7b3d93f42c43)

The six half-termly modules are the same for all year groups, although each cohort has specific objectives catered for their age group. Year 6 will be covering the following topics:

- Being Me in My World
- Celebrating Differences
- Dreams and Goals
- Healthy Me
- Relationships

- Changing Me

# RELIGIOUS EDUCATION

Religious Education is the study of Christianity and other world religions to develop a greater understanding and affinity for the spiritual, moral and cultural knowledge of the pupils. Religious Education helps the children to develop an understanding and an openness towards others.

## **Autumn Term**

Sikhism

## **Spring Term**

The Death and Resurrection of Jesus

## **Summer Term**

Notable Characters and Researching 'Inspiring People'





## James Allen's Girls' School

Ages 4-18

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