**Computing**

Students will learn the basic principles and techniques of simple animation. Beginning with the history of animation, students will research some of the early animation techniques used before the use of computers.

Students will then compare a range of animation software and incorporate the different techniques into their own animation.

After experimenting, students will evaluate their experiences.

**Science**

In Science students will learn about evolution and inheritance. Students will recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Students will learn that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Students will also identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

**Mathematics**

This half term in Maths we will be looking at the following:

-Number and place value

-Addition and subtraction

-Geometry (the properties of shapes)

-Measuring including time, length, volume or capacity

**English**

Students will read ‘Boy’ by Roald Dahl and explore the difference between an autobiography and a biography. Students will learn how to plan and structure their own autobiographies. They will learn how to describe people and write about someone who has had an important influence on their life using the techniques that Roald Dahl uses. Students will learn to punctuate speech and identify regional dialects and standard English.

**RE**

Students will study a range of stories, from different world religions, examining the concepts of justice and freedom. They will learn how key figures in history, such as Martin Luther King, were informed and influenced by their own religious beliefs. They will examine the impact of different religious and non-religious ideas about the formation of the Non-Violent Protest and Human Rights Movements.

**Humanities**

Students will Study the history of clothing in Britain from 1066 through to the present day. Learn about the key changes in fashion, materials and manufacturing processes and gain an understanding of this aspect of social history in Britain. They will finish their topic by meeting a design challenge brief and putting on a catwalk show!

Curriculum Newsletter

Term: Spring A

Class 11 (Siobhan)

**PE**

Students will learn the key skills of Basketball and Cricket. In Basketball students will learn how to throw and catch accurately, pass and dribble accurately and how to create tactical solutions. In Cricket students will develop batting techniques, learn how to bowl overarm and learn how to play a game of Kwik-Cricket.

**Creative**

Students will learn about the history of Optical Art and focus on key pieces by famous artists such as M C Escher and Bridget Riley. Students will learn how to create optical illusions using simple shapes and patterns. Students will learn about tessellation and transformation and explore bold contrasting colours. Students will produce their own Optical artwork.

**Social Communication**

During social communication students will develop their speaking and listening skills. Students will identify what makes a successful speaker/listener and establish rules for effective speaking and listening. Students will identify audience and purpose, identify key features of spoken language and features of persuasive language. Students will develop group and solo presentation skills.

**PSHE**

Students will learn new skills to support their future development. They will develop skills to manage the judgement of others and challenge stereotyping. How to balance ambition and unrealistic expectations and how to develop self-efficacy, including motivation, perseverance and resilience.

**Science**

Watch:

# What Is Evolution & types of humans

[What Is Evolution & types of HUMANS | Dr Binocs Show | Peekaboo Kidz - YouTube](https://www.youtube.com/watch?v=mmCGDsFfl2c)

**Computing**

Watch:

[A Grand Night In: The Story of Aardman | Documentary - YouTube](https://www.youtube.com/watch?v=DcMexOinKhQ&list=PLBFBA92D412B90A08)

To learn about Stop motion animation and Aardman animation.

**English**

Select an autobiography of your choice to read or listen to as an audiobook.

It might be of a famous sports person, film star or leader.

**Mathematics**

Practice drawing and writing the names of as many 2D and 3D shapes as you can think of.

Once you have done this go online and see if there are any you have forgotten.

**Humanities**

Watch: **100 Years of Fashion Trends | 1922 - 2022**

timestamps:

[0:00](https://www.youtube.com/watch?v=PUn5_00YTL0&t=0s) intro [0:46](https://www.youtube.com/watch?v=PUn5_00YTL0&t=46s) 1920's [1:20](https://www.youtube.com/watch?v=PUn5_00YTL0&t=80s) 1930's [2:10](https://www.youtube.com/watch?v=PUn5_00YTL0&t=130s) 1940's [3:15](https://www.youtube.com/watch?v=PUn5_00YTL0&t=195s) 1950's [3:49](https://www.youtube.com/watch?v=PUn5_00YTL0&t=229s) 1960's [4:38](https://www.youtube.com/watch?v=PUn5_00YTL0&t=278s) 1970's [5:07](https://www.youtube.com/watch?v=PUn5_00YTL0&t=307s) 1980's [5:49](https://www.youtube.com/watch?v=PUn5_00YTL0&t=349s) 1990's [6:29](https://www.youtube.com/watch?v=PUn5_00YTL0&t=389s) 2000's [7:01](https://www.youtube.com/watch?v=PUn5_00YTL0&t=421s) 2010's [7:31](https://www.youtube.com/watch?v=PUn5_00YTL0&t=451s) 2020's

**RE**

Watch Dr. Martin Luther King Jr BrainPOP movie and be inspired by the life of Dr. Martin Luther King Jr. with the help of Tim and Moby. Learn about the civil rights movement and how his non-violent protests lead to Supreme Court decisions banning segregation.

Curriculum Newsletter

Term: Autumn A Homework

Class 11 (Siobhan)

**PSHE**

Watch:

[Stereotypes for kids - What are stereotypes? - YouTube](https://www.youtube.com/watch?v=DJsY61MgkDU)

**Social Communication**

Write a 2-minute speech about something you are passionate about and present to a friend or family member.

Use the internet to research your topic.

**Creative**

Try creating your own Optical Art.

Research tessellation art and the work of M C Escher.

Maybe you would like to visit an Art Gallery.

These galleries are free to visit.

BALTIC Centre for Contemporary Art,

Laing Art Gallery,

Side Gallery,

The Biscuit Factory.

**PE**

Watch a Basketball game or a Cricket match.

Watch:

[Who Invented Basketball? | COLOSSAL QUESTIONS - YouTube](https://www.youtube.com/watch?v=RMfzRbziN7E)