

Class: Swans

## TOPIC WEB

Topic: Robots

### English

#### Reading:

Our class book this term will be The Iron Man. Children will look at vocabulary, inference, make predictions, give explanations and retrieve information from the text in their daily Guided Reading.

Children will be writing a recount of the 'The Iron Man' story to chapter 3, creating their own ending.  
Children will also be writing a persuasive letter to the Iron man from a character's perspective.

#### SPaG

Focus on adverbial phrases, expanded noun phrases, coordinating and subordinating conjunctions and direct speech.

### Art & Design

Using Pointillist painting to create a single image using a cotton bud to build up a sequence of coloured dots.

### Physical Education

Children will be developing their agility and coordination through netball and dance. Children will be following our robot theme to come up with some robotic sequences in groups and will be applying those movements to music to create a class dance montage.

### History

We will be looking at the history of robots and their impact on our world.

### Maths

Children will be looking at:

Adding and subtracting 2 and 3 digit numbers using expanded and compact method.  
They will revisit the use of counting up on the number line to find the difference.  
They will be looking at estimating totals.  
They will be looking at fractions and finding fractions of numbers.  
They will convert units of measure between mm, cm, g and Kg.  
Daily quick maths.  
Times tables test every Friday.

# ROBOTS

DT

Children will design and make a robot which can help them in their day to day lives. Children will also look at making a moving part to a robot using a cam and follower mechanism.

### Computing

Children will be learning how to use various search engines to research and retrieve information. They will then explore ways to present their information using I.T.

### Music

Children will continue to receive class singing with Mrs Schonfeld. We will also be writing some lyrics to a clip from The Iron Man and with the help of Mrs Schonfeld, will be composing some music to go alongside our lyrics.

### Science

#### Electricity

Explain different ways electricity is generated.

Identify electrical appliances.

Identify complete and incomplete circuits.

Identify and sort materials into electrical conductors and insulators.

Explain how a switch is used and why they are needed.

#### Scientific Enquiry:

Ask & answer simple questions

Observe closely, using simple equipment

Perform simple tests

Identifying and classifying

Gather/ record data to help in answering questions.

### Modern Languages

Children will be describing themselves and others using basic descriptions of their hair, eyes, height and what they are wearing.

### Geography

Children will be looking at where robots are used in the world and in which industries. Children will create a heat map of which areas in the world invest in robotic technology. We will look at California and investigate the impact of robots in that region, focusing on Silicon Valley and the film industry.

### RE

Children will be looking at the Jewish faith and learning how Jews show commitment to God through their beliefs, traditions and practices.