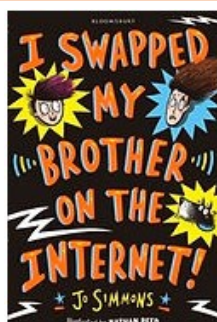
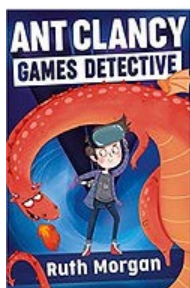
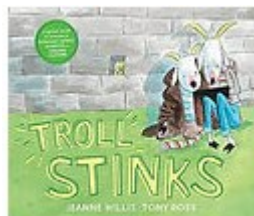


### Theme Overview

“Rise of the Robots” is a thematic unit based around the use of robots in the wider world, the use of electrical circuits in society and computer networks. The children will learn about the development of the internet and the World Wide Web. They will also investigate the work of robots, specifically in Japan, following natural disasters.

### Recommended Reading...



Access books online for free through Hampshire School Library Service. Ask your child's teacher for their barcode/login information.

### What we should know...

### Networks

Our school's computer network is called a LAN (Local Area Network) - a network of connected computers and other devices. Some devices are connected by cables, some are wireless. Everything is connected to the main switch/hub and this connects everything to the server. The server is a computer that is always left on. It serves the network by running programs, storing files, allowing access to the printer and allowing access to the Internet.

### The Internet and the World Wide Web

The internet is a huge network of networks! It connects millions of computers together globally, forming a network in which any computer can communicate with any other computer as long as they are both connected to the Internet. The World Wide Web is the collection of web pages held on the Internet in servers. The Internet enables us to access the WWW to view websites.



### Erik Joyner

Eric Joyner is a contemporary American artist whose body of work has focused on robots and donuts. He uses various mediums to create his artwork, mainly acrylic paint. The children will be studying his work, and re-creating one of his pieces in their own way.



### Electricity

Many household appliances require the use of electricity, as well as many household items being conductors or insulators. There are certain conditions that must be met for a circuit to work, including the battery facing the right way, all switches closed and all components connected by cables.

## Key Vocabulary you should discuss with your child

**Email:** messages distributed by electronic means from one computer user via a network

**Internet:** a communication system that connects computers and databases all over the world

**LAN:** Local Area Network: network that connects computers and devices within a building or small group of buildings

**Network:** a group of connected things or people

**Server:** a computer, a device or a program that is dedicated to managing network resources

**WWW:** World Wide Web: a network of online content.

**Circuit:** electronic components connected by conductive wires

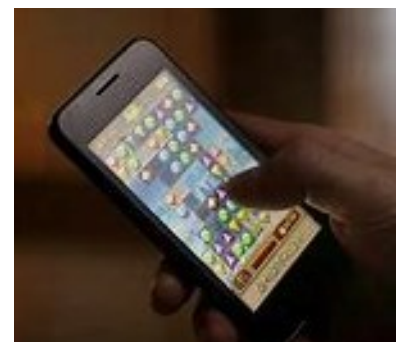
**Conductors:** Conductors are materials which allow electrical current to flow through them easily.

**Insulators:** Insulators are materials which are poor conductors and do not allow electrical current to flow through them easily.



## Concept Flow

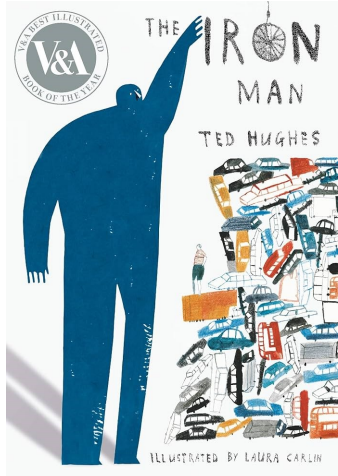
- To understand that the computers in school are connected together in a network
- To understand why computers are networked
- To understand how to construct a working electrical circuit
- To understand the role of robots in society, particularly in Japan following natural disasters.



Please talk to your children about the information on this sheet. The more children discuss their learning the more likely they are to embed the learning to their memory. If you have any questions please don't hesitate to contact your child's class teacher.

## English

In English this term we will be focusing on how to present our work neatly and correctly punctuate speech. We will also consolidate how to improve our writing with expanded noun phrases and conjunctions. In class we will be using this text to support our writing:



We will be writing a newspaper report, narrative and a non-chronological report.

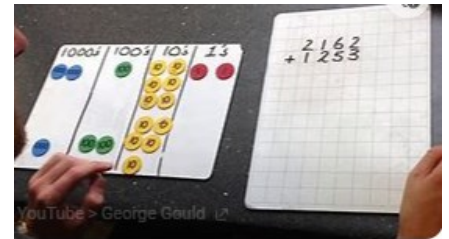
In our Guided Reading sessions we will be learning to retrieve information from the text and infer deeper meaning. Some of the texts we will be using to do this include The Iron Man, Can I Build Another Me and the Robots in School poetry.

## Maths

In maths we will be looking at how to measure Mass and Capacity and the place value of numbers into the thousands using lots of different resources to help us understand.



We will then move onto addition and subtraction of up to four digit numbers, using column method addition and subtraction.



## PE

Our PE days are Monday and Tuesday. The children will be completing team work challenges through our Outdoor Adventurous Activities and developing skills in tag rugby.



## Computing

In computing, the children will develop an understanding of how the internet and networks connect.

## Homework

Due on Friday;  
4x reads a week,  
spelling practice, short tasks linked to the learning in school.

## Science

This half-term, the children will be investigating electrical circuits and light and shadow.

## Art/DT

The children will investigate the work of Erik Joyner and recreate his work with acrylic paints.

## Music

We will be investigating the different rhythms used in music.

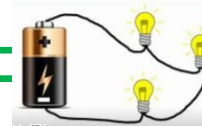


## Spanish

This term, the children will continue to advance their skills in Spanish with Mariposa Languages.

## RE

The children will be investigating the use of trees as symbols in different religions.



## PSHE

Linking to our work in computing, we will investigate how to stay safe online.