

Title: It's Top Secret!



TERM: Autumn 1
YEAR GROUP: 4

Rationale:

Year 4 have received a special message from the CEO of the National Intelligence Agency, Agent Smith. This message revealed that there is a national shortage of secret agents and new people need to be recruited. Year 4 have been given the chance to complete a training course with their teachers to become the next secret agents! As part of this training programme, each pupil will have to design, create and evaluate a signature spy gadget to help them with their future missions. This then needs to be presented to Agent Smith as a persuasive letter and exploded diagram, in order to complete their training.

Lead Subject: DT

For this project, each pupil will design, make and evaluate a spy gadget for the NIA. This gadget must be functional, appealing and innovative. It must also contain a working electrical circuit. We will be carefully designing our products and selecting appropriate materials for the gadgets' purpose and structure. In lessons, we will also be learning new skills to join and reinforce materials to ensure our gadgets are fit for purpose. We will then design, make and evaluate our gadgets.

Lead Subject: English

Throughout this project, we will be reading 'Operation Gadgetman!' by Malorie Blackman. In guided reading sessions, we will be developing our word reading alongside our VIPERS reading skills. In writing, we will produce a persuasive letter to convince Agent Smith that our gadgets fit the criteria set. We will also be using the animation 'Spy Fox' to build our language skills when describing settings and characters.

Lead Subject: Science

We will be learning all about electricity, where it comes from and how it travels. To link with D.T, we will be constructing circuits and carrying out investigations with the components to help us produce the best circuit for our gadgets. We will also be exploring how to create scientific diagrams of these circuits for our product designs. As well as this, we will learn how to make a functioning switch for our gadgets using our knowledge of insulators and conductors.

TOP SECRET

School Values: Resilience

In D.T, we will be developing our self-evaluation skills throughout the process of designing and making our spy gadgets. We will be building resilience when problem solving, correcting faults and self-evaluating to improve the products.

Applied Subject: Computing

We will be using Crumble to create an electronic circuit, which will help us with our gadget design.

Outcome:

We will invite Year 5 to view our gadgets and other work at a gadget fair, where we will graduate after completing our special agent training!

Home learning:

Your home learning assignment will be to design a spy kit to use after graduation. More information will be provided by information sheet.

Maths: (Applied – we will be measuring our spy gadgets)

This half term, we will be exploring numbers over 1000 and demonstrating knowledge of the place value of each digit. We will compare and order 4-digit numbers using number lines. We will also learn how to round numbers to the nearest 10, 100 and 1000. As part of our number and place value unit we will also learn how to interpret Roman Numerals and introduce the concept of negative numbers. Children will be adding and subtracting 4-digit numbers using the column method.

Discrete: P.E.

Gymnastics
Netball

Discrete: French

Je me presente

Discrete: PDL

Me and My Relationships

Discrete: R.E.

Creation

Discrete: music

Superheroes

