

## Key Stage 3 Homework Assignment Information



Student Name:

Target  
level

Year  
Group:

8

Subject	Date Set	Deadline	Teacher
Science	7 <sup>th</sup> June	19 <sup>th</sup> July	All

### Electromancer Unit Homework

#### Does sunscreen work?

I bought Brightday and my friend Kylie bought Smartsun. I want to know if they work.

We used our sunscreen every day we were in the sun. I stayed in my back garden and Kylie went to Spain for two weeks. I put the sunscreen on all my body every 30 minutes when I was outside. Kylie did the same, except when she was out in her dad's boat or swimming. My sunscreen was rubbish as I got no tan. Kylie did get a tan but she had sunburn after a long day out in the boat.

You should write a better plan than this! Write the plan on lined paper, or on the other side of this sheet. Here are some hints.

#### **Question**

Hint: What do you want sunscreen to prevent happening?

#### **Knowledge**

Hint: What is it in sunshine that actually harms you?

#### **Method**

Hint: How would you make this a fair test?

#### **Control**

Hint: How could you tell if the sunscreen was working at all?

#### **Range**

Hint: How about different products on similar parts of your body?

How often would you put it on?



## **Data to collect**

Hint: What could you see happening when you had been in the sun?  
How could you observe/measure this?

## **Words to use:**

input outcome control variable fair test measure  
values range interval reliable error

### **APP L3**

Identify one or more control variables from those provided.

### **APP L4**

Decide when it is appropriate to carry out fair tests.

### **APP L5**

Recognise significant variables, and select the most suitable to investigate.

### **APP L6**

Identifying significant variables and recognise which are independent and which are dependent.

### **APP L7**

Identify key variables in complex contexts, explain why some cannot readily be controlled and plan approaches to investigations to take account of this

**What you have to do to succeed:**

Complete as many of the tasks as you can - aim for the highest level possible, do not limit yourself. Use what you have learnt in class to get started and use additional resources such as the internet, books and SAM learning if you need more information. Write everything in your own words and consider using diagrams to help explain your ideas. Always lay your work out neatly and check your spelling. Your homework will become part of your unit booklet.

### **Resources and Websites:**

- Encyclopaedias.

### **Department guidance for parents:**

You can help the student doing the homework by:

- Encouraging them to think through their ideas before they start.
- Helping them to identify how Science applies to their everyday lives.
- Check through the tasks to ensure they have done as asked and encourage them to attempt as many of the tasks as they can.

### **General guidance for parents**

You can help by:

- Ensuring at least 2 hours are spent researching, developing, drafting,

- reviewing and producing homework to the best standard possible.
- Making sure work is handed in by the deadline.
  - Noting at the end of the homework any problems experienced by the student.
  - Checking there is no plagiarism, ie. downloading/copying from the internet or books.

*Students should read the material, make bullet points, write rough notes in their own words, draft and then develop these notes in their own words into their final piece. Plagiarism leads to coursework being disqualified at GCSE/A level. Plagiarised work will not be accepted by teachers.*

**Please do not:**

- do any part of the work for your child
- give extensive guidance; the student must be able to understand the task for themselves and teachers understand what students can/cannot do.