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Year 7 - Individual Investigation What are we eating? - compare the oil content of two different foods.

Food companies often purposefully advertise their product as healthy alternatives to shoppers in order to increase their sales, but are often high in oil. Aside from the oil content in various chip brands, what other foods could you investigate to reveal and compare the true contents of common foods? Examples

- 'Vegie-chips' are they healthier alternative to normal chips?
- Popcorn is popcorn a healthier alternative to normal chips? Are some popcorn brands healthier than others?
- Muffins Do muffins have less oil than chips? Are banana muffins healthier than a chocolate muffin?
- Hot chips is there more oil in hot chips from the tuck-shop compared with normal chips?

Title:

Hints	Features of this part of experiment report
Title	Concisely outlines the problem being tested in the form "The Effect of (Independent Variable) on the (Dependent Variable)"

Aim:

Hints	Features of this part of experiment report	
Scientific aim	 Scientific statement linking independent and dependent variables. Usually begins with To determine, To investigate, To find out etc 	

Variables:

Hints	Features of this part of experiment report
Variables	 To test this idea hypothesis one factor needs to be changed, this is called the independent variable. There is only one independent variable The effect that is measured, when the independent variable is changed, is called the dependent variable. There is only one dependent variable Controlled variables are the variables that need to be kept the same in every trial so that it is a fair test (Otherwise results cannot be compared). There are many controlled variables.

Dependent variable		
Independent variable		
Controlled variables (st	ate 5 controlled variables)	
Variable	, instrument used to measure it	, units
Variable	, instrument used to measure it	, units
Variable	, instrument used to measure it	, units
Variable	, instrument used to measure it	, units

Name:

Hypothesis:

Hints	Features of this part of experiment report
Hypothesis	 Educated guess about a possible outcome of the experiment Usually written as "If

Materials:

Hints	Features of this part of experiment report
Materials	 Should include all equipment used Sizes and quantities of each piece of equipment used should be included Include enough for all trials

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Method:

Hints	Features of this part of experiment report
Method	This is a detailed description of the scientific procedure that will be used to investigate the problem. Some things to remember to include in the method: 1. Identify the steps required to perform the investigation, write them in logical sequence and number each step. 2. Use "repeat" steps 3. If appropriate include safety instructions 4. No reference to person 5. Include specific names of equipment used and quantities measured 6. Outline what results will be measured and how (what with equipment) 7. Identify how the results will be presented 8. State the range for the independent variable (5 variations) and state the number of trials that will be conducted at each.

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Risk assessment:

Hints	Features of thi	s part of experiment report	
Risk Assessment	equ	ntify a risk involved in carrying out the experiment ipment) that can be taken to reduce the risk to you nagement procedure. See table below.	and safety precautions (including safety irself and other people. Specify hazard
Safety Risi	k	Precaution	Hazard Management
Specific potential risk an dangerous equipment	d/or	This is what can be done beforehand to reduce the risk of an accident happening	This is what can be done if an accident happens while the investigation is being carried out

Name:	
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Results:

Hints	Features of this part of experiment report	
Scientific table of Results	 Suitable, concise title, e.g. Table 1: May be hand drawn in pencil with a ruler (if done by hand) Fully enclosed (all data and headings), rows and columns Appropriate headings with units if available No units written inside the table (only in headings) 	

Name:

Space for table or graph

Name:	
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Discussion:

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Hints	Features of this part of experiment report
Scientific Discussion	 Explains (links cause and effect) the results of the experiment by commenting on the following: What do the results show? Explain (link cause and effect) trends or patterns in the data was collected. Use specific data from the results to explain the trends (or lack of trends). This includes any unusual or unexpected findings. Outline one possible future improvement to the procedure of the experimental design.

Name:		
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Conclusions:

Hints	Features of this part of experiment report
	 Total length of the conclusion should be no more than 6 sentences. Briefly, restate the hypothesis Identify the main findings (i.e. trends observed in the data)
Conclusion	 Note improvements to the procedure and any further studies that can add value to the question studied in this investigation.

Name:
