

Business & Enterprise 'Recycle it Challenge'



Your name.....

Your Teacher's name.....

Higher Paper Based on KS3 levels 5-8

Project Objectives

- Complete secondary research to inform your project
- Be able to define "**primary source.**"
- Identify examples of primary sources.
- define **secondary sources** and distinguish between primary and secondary sources.
- Be able to interpret your primary research to inform your project
- Produce a written report including graphs and tables
- Develop a presentation to show case your project
- Design and market your product

Recycle It!

You have learnt lots about Enterprise Skills and how you can use them throughout the School curriculum. Now it's your turn to be enterprising, innovative and creative whilst helping to save our planet.

Recycling is an excellent way of saving energy and conserving the environment. Did you know that:

- 1 recycled tin can would save enough energy to power a television for 3 hours.
- 1 recycled glass bottle would save enough energy to power a computer for 25 minutes.
- 1 recycled plastic bottle would save enough energy to power a 60-watt light bulb for 3 hours.
- 70% less energy is required to recycle paper compared with making it from raw materials.

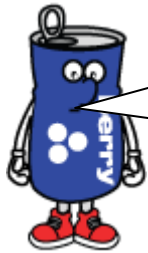
Some Interesting Facts

- Up to 60% of the rubbish that ends up in the dustbin could be recycled.
- The unreleased energy contained in the average dustbin each year could power a television for 5,000 hours.
- The largest lake in the Britain could be filled with rubbish from the UK in 8 months.
- On average, 16% of the money you spend on a product pays for the packaging, which ultimately ends up as rubbish.
- As much as 50% of waste in the average dustbin could be composted.
- Up to 80% of a vehicle can be recycled.
- 9 out of 10 people would recycle more if it were made easier.

Your challenge - You need to design and create a new or existing product using recyclable items which can be found around your home. For example, you could use old toilet roll tubes to make a pen holder. However, before you start designing you must complete some research.

Secondary Research

Task 1- Firstly using the following website <http://www.recycling-guide.org.uk/> let's see what we can find out about everyday objects that can be recycled. Use this website to find 3 recycling facts about the following objects;



What am I.....

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-
-



What am I.....

-
-
-



What am I.....

-
-
-



What am I.....

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-
-

Now that you have complete some secondary research can you tell me what secondary research is?

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Can you list 4 advantages of secondary research?

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Can you list 4 disadvantages of secondary research?

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In no more than 20 word write a sentence which explains why using secondary research is important.

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Primary Research

Task 2

Now that you have found out about all of the different products that can be recycle, it is time for you to carry out some primary research of your own in order to find out what your family and friends think about recycling.

Firstly what is primary research?

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How does primary research differ from secondary research?

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What are my objectives or in other words what do I want to find out from doing this research?

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My Primary Research

Task 3

Now that you have identified your objectives you need to develop your own questionnaire using word ideally but by hand on paper would be ok. Try and ask at least 10 questions based on your objective. You then you need to ask at least 10 people you questions these could be friends and family.

Here are some examples of questions but to gain higher marks you should develop your own unique questionnaire based on your own personal objectives. You will also need to use a format for your questionnaire is fit for purpose and audience.

Sample Questions

1. Do you recycle in any way? (Please State)

2. What do you recycle? (Tick All Applicable)
(Paper / Cardboard) (Plastic) (Glass) (Cans)
Other (Please State)

3. What recycling procedures take place in your area? (Tick All Applicable)

(Recycling Bin Collection) (Bottle Collection) (Furniture Collection)
(None)

Other (Please State)

4. How often do these procedures take place?

(Weekly) (Once A Fortnight) (Monthly) (Longer)

5. Are you happy with the recycling procedures that are in place in your area?

Yes No

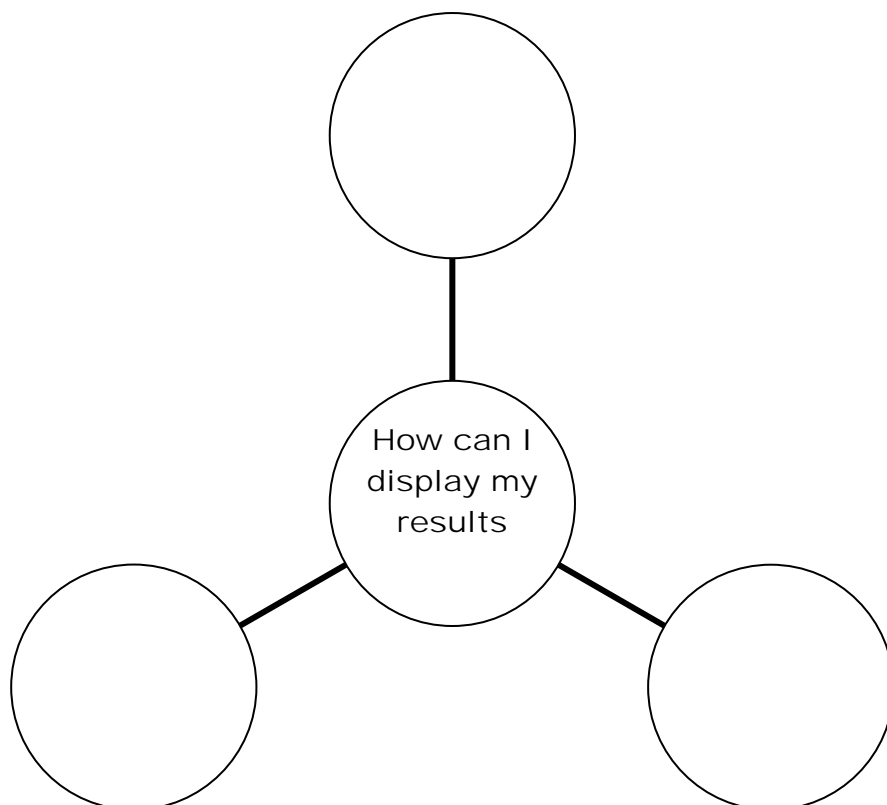
Explain?

6. Is there anything that you feel needs to be improved upon to aid the way we recycle?

Displaying your Results

Once you have completed your primary research you need to make sense of it. Firstly, you should group or tally up your results then use the most appropriate methods to display your results so that your results are easily understandable by all readers and thus fit for audience and purpose.

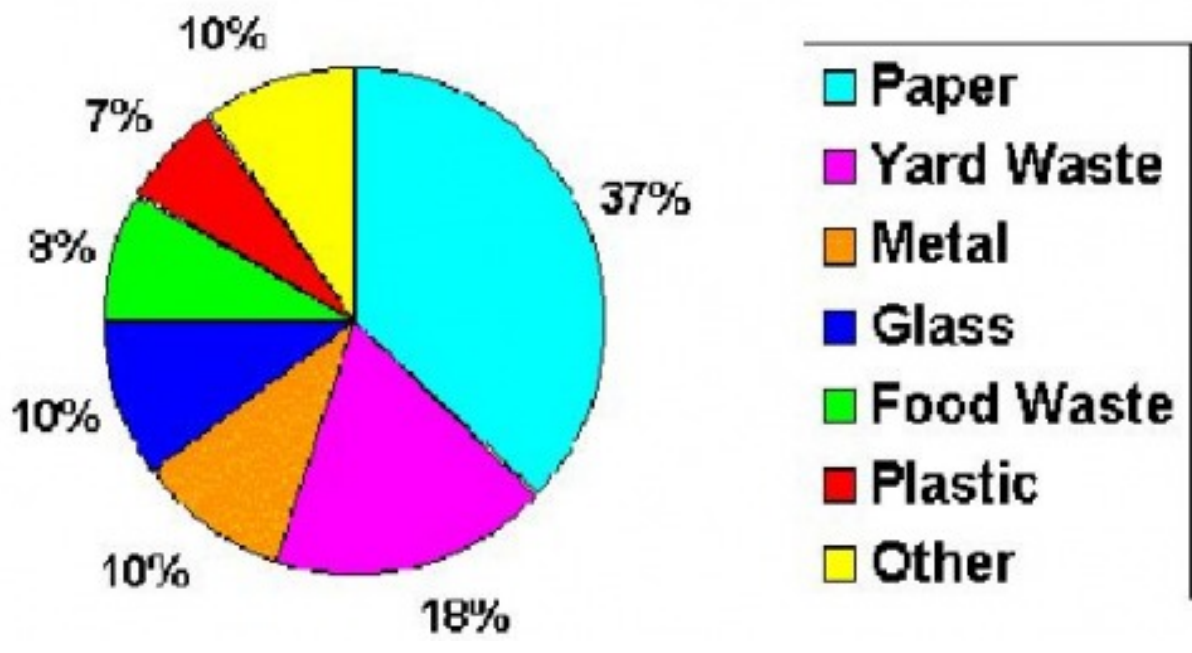
Can you think of three or more ways in which you could display your results?



Next you will see 3 examples of ways in which you could display your results but what do they mean?

Example 1 is a.....and highlights
that.....
.....
.....
.....

Compositon Of An Average Dump



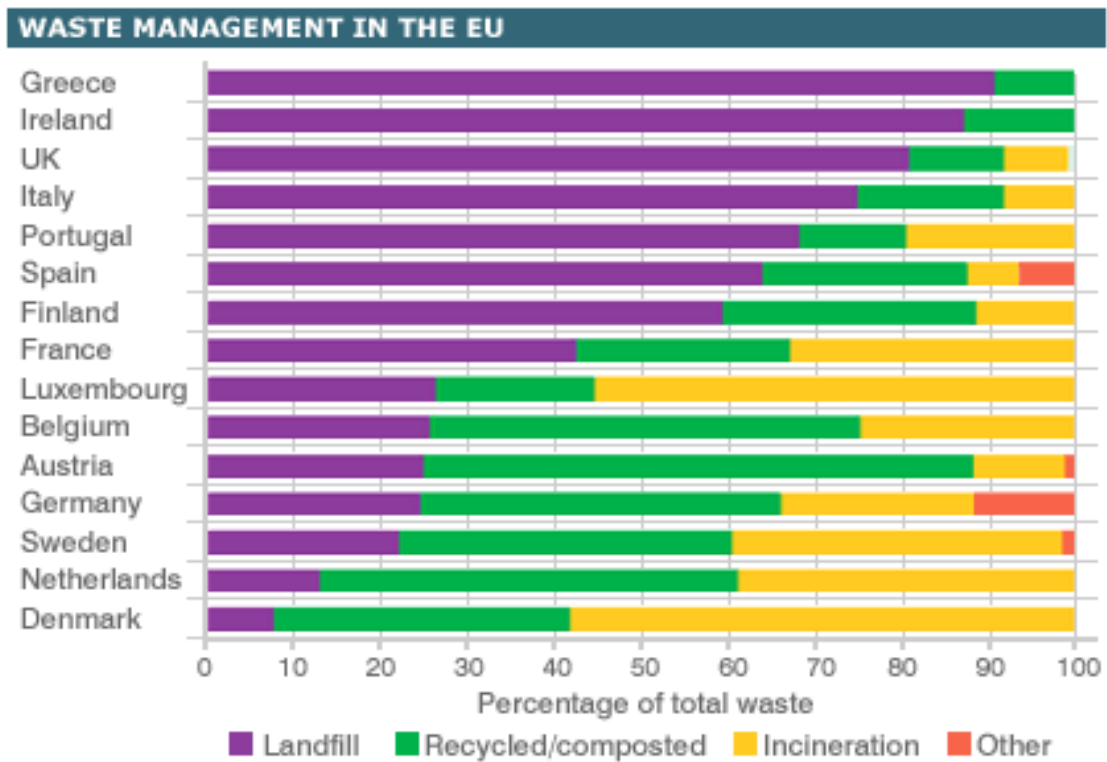
Example 2 is a.....and highlights

that.....

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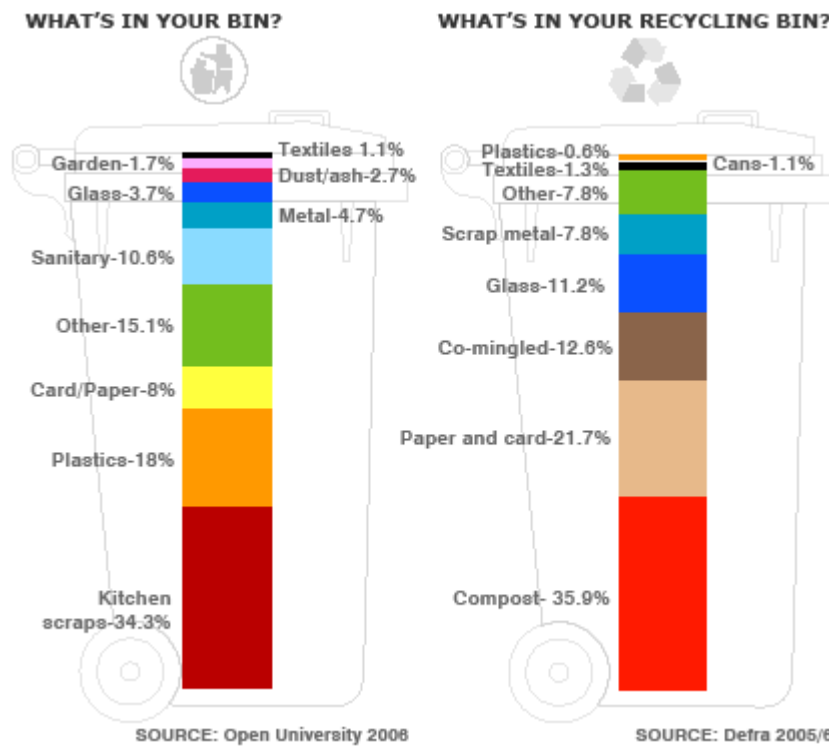
Example 3 is a.....and highlights

that.....

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Your Turn

Task 4

You have to produce a report which explains your research.

You have seen three different ways in which you can display your findings using numbers this is called quantitative data collection.

A) You must now display your finding using a range of tables, graphs and charts...be as creative as you want but remember it must be fit for purpose and audience.

B) You will also need to use words to explain your graphs explaining how your research has aided your decision in task 5

C) Ideally you would use Excel to produce your graphs and use word to collate your report which should include your graphs which you can copy and paste from excel

Project Check List

I have.....

- ✓ Completed my secondary research
- ✓ Designed a questionnaire and surveyed at least 10 people
- ✓ Analysed my results
- ✓ Displayed my results in tables, charts and/or graphs
- ✓ Have written my report including my charts

But you're not finished yet you will have to add to your report in the next part of your project.

Task 5

Now that you have completed your research and analysed your findings you are going to design your product and plan your advertising campaign.

Your product must be made from recyclable items that you can find around your home.....so, off you go have a search round your home and find 5 items and list them below:

1. _____
2. _____
3. _____
4. _____
5. _____

Just in case you are struggling here are some websites you could use to help you

Useful Websites

<http://www.recycling-guide.org.uk/facts.html>

<http://www.make-stuff.com/recycling/>

http://www.makingfriends.com/recycle_unique.htm

<http://www.wisebread.com/twenty-five-things-to-do-with-old-jeans>

Task 6

Now that you have identified the recyclable items what could you make from them? Come up with three ideas below;

1. _____
2. _____
3. _____

Task 7

Now Design 1 Product

You can use....

- Microsoft Publisher
- Paper and Pens
- Fabric, card.....anything you want

And if you want you can make your product but you don't have to.

Make Your Product

Task 8

When you have designed and made your product you need to produce a 5 slide presentation to explain it.

Slide 1 – Title Page, Product Name, Your Name

Slide 2 - Describe your product in a sentence using no more than 15 words:

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Slide 3 – If you were to sell your product who are you targeting?
i.e. what kind of people would buy it?

Slide 4 - How much would you sell it for and why?

Slide 5 – Any Questions

Task 9

1. Design a poster which will advertise your product
2. Think of a strap line like McDonalds, 'Im lovein It" or Burger King "Taste is King", or Nike "Just Do It"
3. You should write and/or compose a jingle for your product.
4. Present your new idea to your family and friends remembering to use the presentation skills that you learnt about in class.

What you should hand in

- This project booklet
- Your questionnaire
- Your report including:
 - Your primary and secondary research
 - Your analysis including graphs
 - Your designs
 - A paper copy of your presentation