Inquiring and Analyzing

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Analyses a range of	Similar Product 1 (Citation needed)
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inspire a solution to the	
problem in detail	
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(Analyze - Break down in	
order to bring out the	
essential elements or	
structure. To identify parts	
and relationships, and to	
interpret information to	
reach conclusions.)	
	Civilian Day double 2 (Citatian and all)
	Similar Product 2 (Citation needed)
	Similar Product 3 (Citation needed)
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	Similar Product 4 (Citation needed)
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	Similar Product 5 (Citation needed)

EXAMPLES

Students will need to employ a range of strategies to analyze these products, such as:

- identification of and interaction with similar products when out shopping
- attribute listing of existing products
- SWOT analysis (strengths, weaknesses, opportunities and threats)
- functional analysis
- aesthetic analysis
- graphical disassembly analysis
- performance testing of products
- evaluation of past student projects
- secondary research through product reviews on consumer websites, buying guides or magazines
- summary of customer reviews on commercial websites.

Analysis – Attribute listing EXAMPLE: Flash drive

Flash drive n	nodel	Feature	attribute/					
USB model	Brand/model	Dimensions (mm)			Aesthetics			
		Length	Width	Height	Shape	Cap style	Colour variety	
Standard USB port	Kingston DataTraveler101	55.65	17.3	9.05	Rectangular	Swivel	4	
	San disk Cruzer Mirco	57.15	20.6	7.94		Retractable	5	
	Kingston DataTraveler G3	65.68	22.37	10.66		External cap	2	
Mini USB	PQi i812	29.5	12.2	6.0		Swivel	5	
port	Apacer AH110	34	12.6	2.7		No cap	2	
	Super Talent Pico-B	31.8	18.8	4.4		Retractable	1	
USB model	Brand/model	Form & use		Source of data values				
		Weight (g)	Casing material	Extra feature	The sources correlate with the brand/model of the flash drives for which data was retrieved			
Standard USB port	Kingston DataTraveler101	12	Metal & plastic	Chain slot	(kirsch)			
	San disk Cruzer Mirco	5	Plastic	Chain ring	(Sandisk Cruzer Mirco U3 Smart Technology)			
	Kingston DataTraveler G3	11	Plastic	Chain slot	(DataTraveler Generation 3 (G3))			
Mini USB port	PQi i812	4.9	Metal	Chain ring	(Intelligent Drive i812)			
	Apacer AH110	2	Plastic	Chain slot	(Handy Steno AH110)			
	Super Talent Pico-B	Less than 6	Metal	None	(Super Talent Pico-B Retractable 4GB USB2.0 Flash Drive)			

Analysis – Attribute listing EXAMPLE: Flash drive

Diago garria	Tuncathara	Diano verileti ::	Cinc	Coot	Ni. shuiti a sa a l	Charges
Pizza source:	Type of base	Pizza variety:	Size	Cost	Nutritional consideration	Storage and shelf life
Amigo Pizzeria	Thin crust white flour yeast dough – hand made	Meat Classic: traditional sauce, mozzarella cheese, ham, bacon, salami, (chicken optional) fabulous with BBQ sauce Oily appearance	Regula r 9" Large 12" Family 16" Party 18"	\$9.90 \$12.90 \$18.90 \$22.90	No nutritional information provided. Comes in a box – the bottom of which has a huge oil stain on it suggesting the	No instructions but food safety requires left-ov food to be placed in the refrigerator asa for a maximum of 3 days and reheated to above 72 degrees
Supermarket	Thick crust	Meat Feast:	10"	\$3.00	pizza has a high fat content. Detailed	Detailed
Heat and Eat Pizza	Wheat flour yeast dough commercially made	Mozzarella and cheddar cheese, beef, bacon, tomato paste Uncooked the pizza toppings look very sparse as does the use of tomato paste lots of cheese not particularly appetizing however on cooking the pizza looked quite appetizing but was lacking in flavour. The base although looks as if it would be crisp was quite doughy. Note: ingredients could be added for example vegetables to improve the nutritional balance			nutritional information provided – Energy Protein Fat CHO Sodium per 100 grams and an extensive list of additives and preservatives 19 in total listed	information provided – keep refrigerated below 5 degrees C freeze before the use by date below minus 18 degrees consume within one month cool from frozen
Pizza Xpress	Classic crust A range of bases available cheesy crust traditional, value, gluten free, traditional edge and puff	BBQ Meatlovers: Rasher bacon, pepperoni, smoked leg ham, ground beef, Italian sausage, and mozzarella on BBQ sauce	10"	Depends on the promotion but generally around \$8- 12	Up dated detailed nutritional information available online plus allergen and additive information . Good choice range 97% fat free Low carbohydrate crust	Not found on the packaging nor on the website

Pizza from	Appearance (cooked)	Texture	Flavour	Value for money (1-5
Amigo Pizzeria	Rustic home made in appearance, colourful, well-proportioned with lots of topping ingredients, not flat – substantial looking	Moist, crisp base – firm enough to hold without the topping falling off	Wonderful smokey flavour, meaty, spicy, salty	poor- excellent) 5
Supermarket	Perfectly round shape, not very colourful, flat, toppings not well proportioned	Base was heavy and dense the pizza as a whole was soft and rubbery.	Bland – bread with tomato paste and cheese on it with a few bits of meat	3
Pizza Xpress	Perfectly round, very golden brown, colours all blending in, well- proportioned but individual topping ingredients not clearly visible as shown on-line	Moist inside crispy on top, base firm and bread like, stringy	Cheesy, sweet from the caramelized red onion, salty from the cheese and meats – trendy combination	5

Analysis – SWOT analysis EXAMPLE: Backpack

SWOT analysis Backpack - Frameless

Strengths

Simple design that combines the drawstring and straps onto a single piece of cloth

One main storage compartment, suitable for the general transportation of goods

Comes in varying sizes and different colours

Lightweight - weighs almost nothing

Machine washable - easy to clean and maintain

Weaknesses

Lack of pockets on the inside and outside

Durability – looks as if seams might split when carrying a few weighty goods

Not comfortable – the drawstring straps would not take the weight off the shoulders – injury could occur from shoulder strap pressure

Small load capacity and difficult to put the loaded backpack on

Because the fabric is thin, the bag would not hold its shape and goods could easily get crushed

Fabric not completely waterproof

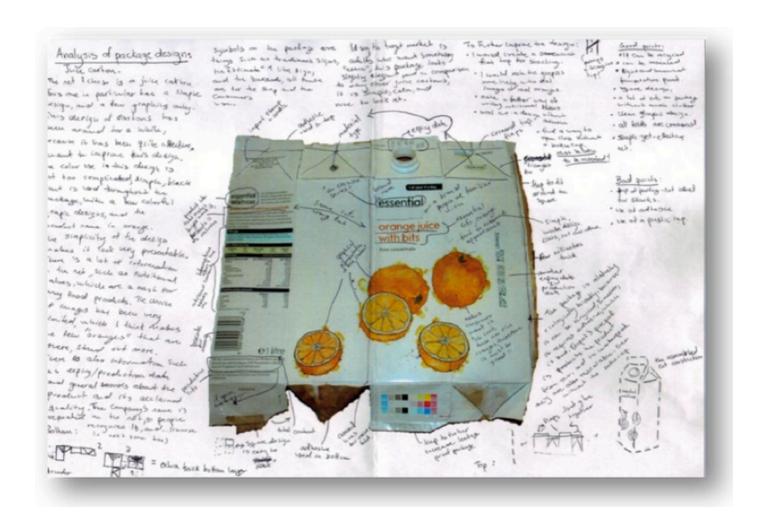
Opportunities

- Reflective materials added for safety at night
- Made into fashion accessories designed specifically for women and no larger than a purse – maybe one strap rather than two
- Fabric could be waterproofed

Threats

- Safety drawstring a safety hazard
- Should the fabric tear, you could end up with a hole in the bottom and lose your goods

Analysis - EXAMPLE: Fruit Juice Packaging



Disassembly analysis EXAMPLE: Video game console controller

Plastic controller disassembly

"we chosen to disassemble a controller to see how it is put together, how the electrical parts are put together, and so I can see how the lights and electrics work inside it.

Good points

This controller is good because it has a grip surface on the side, which makes it less slippery to hold. It also has a light on the two joysticks, which makes it better t use in dark, as well as making the overall look more appealing. It has a carnouflage pattern that suits it target market (teenagers), thas extra buttons compared to a normal gaming controller, which can satisfy specialist with increased speed of pushing buttons.

3ad points:

t is too thick in the hand for some people to hold. Some of the buttons are hard to push in, which nakes it hander to use. The grip has a rugged surface that becomes uncomfortable to hold if it is yeld long enough.

mprovements:

To improve this design I would make it a bit more interesting to look at. I would firstly make the light of the control shine through more places that only from the joysticks. I would make the colour scheme a bit more "cold" by adding a few very light shades of blue into the graphics, there is a black coloured equivalent to this design which is also good, because it creates a diversity in choice. I would have made the grip less rugged, and make it smoother. This will increase comfort when using t. I would also loosen some of the buttons, and give some of them a little more space, because the current main buttons are a not as responsive as they should be.



There were several small metal pieces that were covered by plastic, to be buttons, and this is how many buttons are. The plastic makes the button bigger, and more comfortable to push in. From disassembling this controller I have learnt how it is put together, and how you can put plastics together without necessarily using glue. Ways I can incorporate these ideas into my own design is the idea of having the light shine through something. This will protect both the light and the child. If the item was coloured the light would also be



coloured, which through my questionnaire was shown to be desirable. I've now seen how separate pieces can slot together to create a whole interlocked piece. Although I was originally supposed to disassemble a toy or a nightlight, disassembling something like this has shown to be equally as useful because of the amount of electronics that goes into this handheld plastic object.

Logo analysis EXAMPLE

Logo analysis

Use a series of guiding questions to complete aesthetic and functional analysis of the work done by a peer

- A. Type of logo:
 - a. illustrative logo (clearly illustrates what a company/person does, likes or dislikes)
 - b. graphic logo (includes a graphic, often an abstraction, of a company/person does)
 - c. font-based logo (a text treatment which represents a company/person)
- B. Shape:
 - a. Does it have a recognizable shape?
 - b. Is the outline simple?
 - c. Is it simple abstract, can be discernible in small sizes?
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- D. Shape:
 - a. Does it have a recognizable shape?
 - b. Is the outline simple?
 - c. Is it simple abstract, can be discernible in small sizes?
- E. Contrast:
 - a. Does contrast aid shape-recognition by making the edges between elements clearer?
 - b. Does contrast create dynamism?
 - c. Compare the brilliance/luminosity of the foreground and the background. The greater the difference, the greater the contrast
- F. Effort:
 - a. Does the logo evidence the use of techniques learnt in class? (use of layers, transparency, gradients, effects or filters, fancy typography, tracing complicated shapes, transforming, graphic styles)

Source: Logo Design for Websites

http://www.webdesignfromscratch.com/web-design/logos/

Example of year 3 student work



This is a graphic logo because we can see a graphic, most probably representing something he is proud about and likes. The tango is representative of Argentina because it's a dance invented in this country, and this student is very proud about his country. We can recognize a shape of two people dancing tango, it represents pride, the colors and the shape are well used to give an impression of elegance. Here it shows the good use of vector drawing technique, so we can say he had applied the techniques learnt in class.