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(A) when a designer needs to undertake activities to determine whether an existing design or product needs to be further developed, there are different methods they can take part in such as performing different types of research, doing experiments, producing prototypes and determining positive and negative features to the original product.

when a product needs further development its usually because there is something unacceptable about it or consumers arent happy with it.
Research that a designer could undertake could be qualitative and quantitative research.
Qualitative research involves the designer creating surveys and gaining feedback via the surveys, first hand on finding out things they want to find out or have any questions they need answered, answered.
Quantitative research is secondary research that a designer could undertake, this involves looking at other

existing or similar products and determining
ways to improve their product.

Another activity that a designer
could take would be experimenting,
their experiments could be on the
materials of the product (whats better
to use, why its better, can it be used
for their design). Other experiments could
also be on the construction and
development of the product ~~the product~~
(Is there a better way to construct,
how can it be done, whats the
advantages and disadvantages)

By producing prototypes of other
designs this allows the designer
to see what they can do better
and how they can do it better. It
allows them to see what can be
changed in their design to
determine if the product needs
further development.

Another activity that the designer
could use to determine whether

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the product needs to be further developed could be the use of a SWOT chart. A 'SWOT' chart includes the strengths, weaknesses, opportunities and threats of the existing design.

This will allow the designer to see if anything needs to be changed within the existing product or if anything else can be done to further the development of the product.

Overall the activities that a designer can undertake will either make them want to modify or furthermore completely change their product. By seeing if a product needs further development it dosent mean theres something wrong with it, it just means things can be done to make it better.

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when further developing an existing product, even if the current model is still functional and aesthetically appealing - there may be other factors which trigger a the need necessity to further develop the existing product.

Reasons for the need of this can be a change in social trends, a change in views, cost of the product, the materials being used and the effects that the product gives.
Even though the product is still functional and aesthetically pleasing, new emerging technologies may require designers to furthermore develop their existing product.
An example of this is the 'samsung Galaxy S2 android vs iphone 4s'.
The samsung galaxy was the first emerging android phone to include a 'notifications drop down bar', the iphone 4s brought out their own software 'iOS' which

allow iphone users to also have that same notifications drop down bar and similar features.

This was necessary because samsung was becoming apples competition. By incorporating the similar use of new and emerging technologies it allowed apple to create a new phone with more features to satisfy consumer demand. Even though the original iphone 4 was still functional and aesthetically pleasing, the introduction of the iphone 4s created consumers to 'need' the purchase of the new product.

Other reasons for change and to furthermore develop an existing product because consumers are looking to have something new, something that no one else has and to have the top of the range item. By already developing an existing product designers dont have to completely change it, they are able to

modify the product so it can suite customer demands and bring in greater profit to the company.

overall by looking at different factors that contribute to the reasons for designers to want to further develop their product we can see that there is always room for improvement and the slightest changes in a design can have a greater impact.

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