YEAR 9 THEORY –2 Ethics and the environment. Name: --------------------------

1. What are the 5 stages of a LCA (Life cycle analysis)? (5 marks)

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1. Select one of the stages of a LCA and explain how a product of your choice effects the environment. (2 marks)

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1. The 6R’s are an important checklist. They are used by designers to reduce the environmental impact of products. Complete the table below. (5 marks)

|  |  |
| --- | --- |
| 6R | Meaning |
|  | Reprocess a material or product and make something else |
| Reuse |  |
|  | When a product breaks or doesn’t work, try to fix it. |
| Rethink | Design in a way that considers people and the environment. |
| Reduce |  |
|  | Don’t buy a product if you don’t need it or it’s bad for the environment. |

1. Explain what the term “Sustainable design” means (3 marks)

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1. What does it mean if a product is “Fair trade”? (2 marks)

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1. Wind is an example of renewable, natural energy. Give another 2 examples of alternative natural energy sources. (2 marks)

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1. It’s important that designers and manufactures consider the welfare of people and protect them from harm. Evaluate how products can have a negative impact on **people**. (6 marks)

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1. Sustainable design is becoming increasing popular. Consider how the children’s toy car below can be re-designed to be more sustainable and reduce its impact on the environment. (3 marks)



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Total marks= your mark /28 Percentage= Grade=

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