**2023**

**Year 12 Integrated Science – Unit 4**

**Task 9: Vehicle Comparison Validation**

**Assessment Type: Extended Response**

**Weighting: 10%**

**Duration: 45 minutes**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Total Mark** |  |

*Please see SEQTA for teacher feedback and comments.*

**The below questions are related to *conventional vehicles.***

1. a. What primary reaction causes cars to move? 1 mark

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b. What energy transformation occurs during this reaction? 2 marks

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1. Describe **two** impacts conventional cars have on the environment (this could include its manufacture, use or disposal)

Impact one: 2 marks

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Impact two: 2 marks

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1. One of the pro’s or benefits for conventional cars is the cheaper purchase cost. Explain why this is. 2 marks

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**The below questions are related to *electric vehicles.***

1. Where is the energy stored in electric vehicles? 1 mark

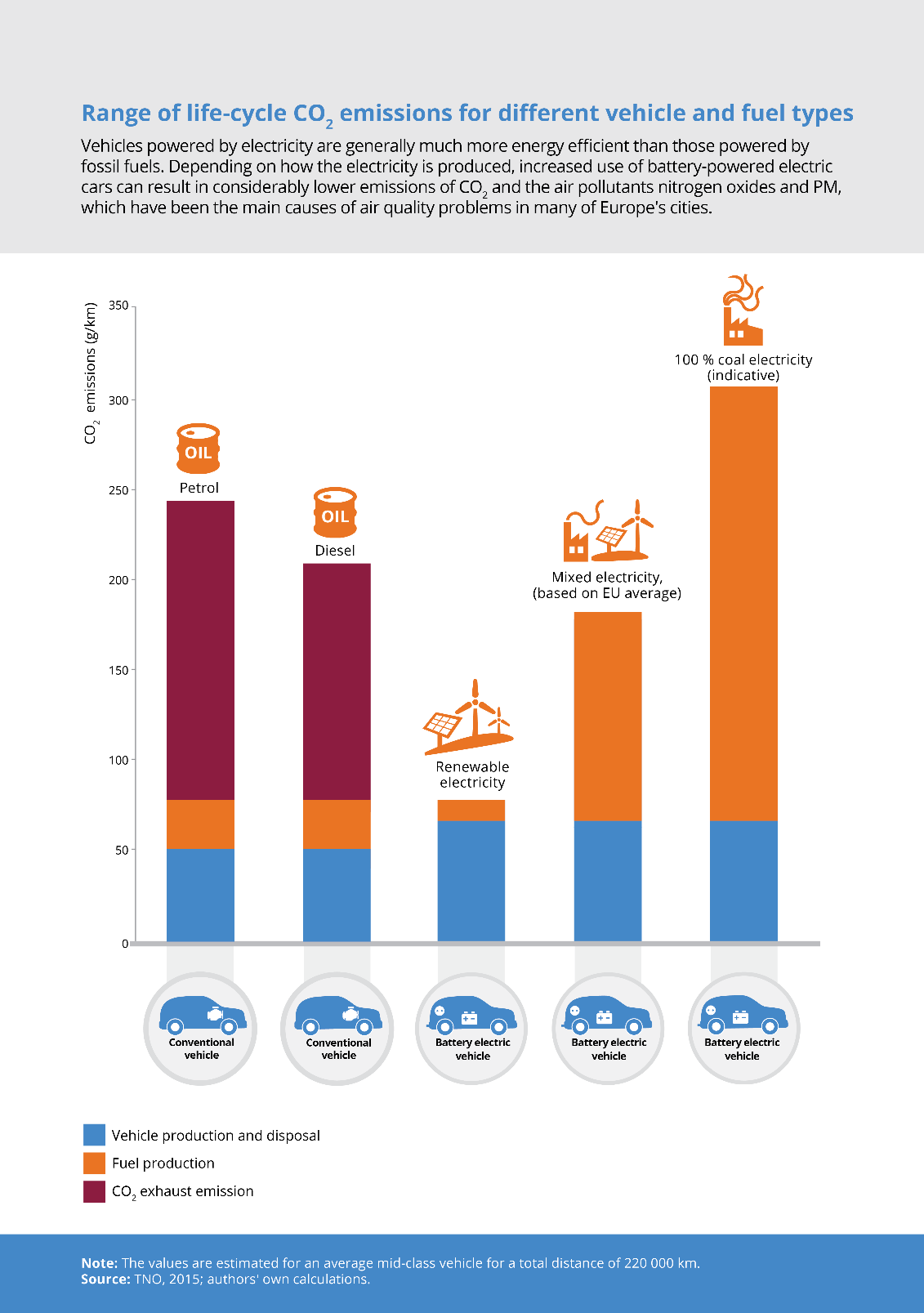
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1. Describe **one** impact electric vehicles have on the environment (this could include its manufacture, use or disposal) 2 marks

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1. Describe **one** connotation or negative feature, other than purchase cost, to consider when buying an electric vehicle. 2 marks

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**The following questions refer to the below infographic.**

1. If you drive a conventional diesel vehicle, what are your total CO2 emissions in g/km? 1 mark

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1. If you drive a conventional petrol vehicle, where does most of your CO2 emissions come from? 1 mark

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1. Your friend looked at the infographic above and said *“obviously electric cars are worse for the environment. Look at the last column!”* Are they correct? Use data from the infographic to support your answer. 4 marks

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1. Give **one** reason for the difference in emission between conventional and electric vehicles 1 mark

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**Use the above infographic and the knowledge you gained from writing your brochure to answer the below question.**

1. Which type of car, electric or conventional, would you prefer for yourself? Provide at least 3 reasons for your answer. 4 marks

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**END OF ASSESSMENT**