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91733



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

SUPERVISOR'S USE ONLY

Level 2 Education for Sustainability, 2018

91733 Demonstrate understanding of initiatives that contribute to a sustainable future

2.00 p.m. Monday 26 November 2018
Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of initiatives that contribute to a sustainable future.	Demonstrate in-depth understanding of initiatives that contribute to a sustainable future.	Demonstrate comprehensive understanding of initiatives that contribute to a sustainable future.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL parts of the task in this booklet.

Pull out Resource Booklet 91733R from the centre of this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–8 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Achievement

TOTAL

A

ASSESSOR'S USE ONLY

Resource Booklet 91733R contains resources relating to initiatives that encourage people to use electric or hybrid vehicles:

- **Resource A** – The sustainable nature of electric/hybrid vehicles.
- **Resources B and C** – Two different initiatives that encourage people to use electric/hybrid vehicles.

Refer to ALL resources in responding to the following task.

TASK

- (a) (i) Why are electric/hybrid vehicles considered to be more sustainable? Refer to TWO of the four aspects of sustainability: environmental, social, cultural, economic.

Aspect 1: Environmental

Electric vehicles are more efficient than petroleum-powered vehicles at turning energy into kilometres driven. The cost-wise of fuel consumption of more than 80 km per litre. Electric/hybrid vehicles are more sustainable because they are won't get polluted and there will be a benefit in CO₂ reduction. With two million electric cars been sold of the world in 2017 show how popular they are it also means that the air we breath is getting better and better.

Aspect 2: Economic

The price of a basic plug in hybrid costs £61,650 with an increase of £13,250 on the current price of the basic diesel version. With the cost of this car people could struggle to afford this as cars that use gas could be a lot cheaper and therefore would go to the cheaper car.

- (ii) Discuss how well the two initiatives described in Resources B and C are ~~likely to~~ achieve their intended outcomes to increase the usage of electric/hybrid vehicles and reduce carbon emissions.

Initiative 1 (Resource B): In Norway the governments clear target is 'all new passenger car and vans sold in 2025 should be zero-emission vehicles.' With this being there target about 40% of all cars sold in the country last year were electric or hybrid vehicles. Between 2019 and 2021, they will introduce 5 models that are 100% electric. I think that they will achieve their intended outcomes because they have in the past and they are reasonable outcomes not crazy ones. The Chief Executive of Volvo said 'This announcement marks the end of the solely engine-powered car.' This statement really lets people know they are ~~unreal~~ serious about what they are doing which will attract people.

Initiative 2 (Resource C): Electric cars are ~~upto~~ eligible for a grant of 35 per cent of their purchase price upto a max of £4,500. The car must be capable of a lot of things to be able to get sold. Government around the world have been offering subsidies on the purchase of a new hybrid or fully electric vehicles. The subsidies will last upto a year and are worth NZ\$1500 per vehicle. They are likely to achieve their outcomes as people are for electric cars but with subsidies your bank might not let you so you would have to be in an alright financial state

- (b) Evaluate which initiative best meets the concept of **Kaitiakitanga** (guardianship). You may relate your answer to local, national, or global settings.

Electric vehicles and sustainability with a UK perspective meet the concept of Kaitiakitanga because they are really caring for the environment and how CO₂ will be reduced. Electric vehicles are powered by solar, hydro, wind or nuclear sources produce no carbon in operation. This helps the global setting because it makes the air less polluted and it means there will be less drilling ~~for~~ for oil. Which the won't ruin the sea beds and kill sea life. Automotive expert Aston University add that electric cars could also dramatically improve urban air quality. This means that in places like China where they have to wear masks 24/7 because the air is that polluted, it will improve as more and more electrical and hybrid ~~more~~ cars get used this is because the air won't be getting polluted.

Achievement Exemplar 2018

Subject	Education for Sustainability	Standard	91733	Total score	04
Q	Grade score	Annotation			
1	A4	The candidate has demonstrated understanding of initiatives that contribute to a sustainable future. An evaluation of the two initiatives has been provided with limited use of the resources.			