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91279MR



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

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

Tikanga ā-Iwi, Kaupae 2, 2022

**91279M Te whakaatu i te māramatanga ki ngā tautohe ka
ara ake i ngā whakapono me ngā whakaaro ā-ahurea rerekē**

Ngā whiwhinga: E whā

TE PUKAPUKA RAUEMI

Kōrerotia tēnei pukapuka hei whakaoti i ngā tū mahi mō Tikanga ā-Iwi 91279M.

Tirohia kia kitea ai e tika ana te raupapatanga o ngā whārangi 2–17 kei roto i tēnei pukapuka, ka mutu, kāore tētahi o aua whārangi i te takoto kau.

E ĀHEI ANA TŌ PUPURI KI TĒNEI PUKAPUKA HEI TE MUTUNGA O TE WHAKAMĀTAUTAU.

TE ĀHUA ME TE PŪTAKE O TE TAUTOHE E HĀNGAI ANA KI TE AHUMAHI TĀPOI TUARANGI

HE WHAKATAKI

Kua roa nei te pōkai i tuarangi e noho ana hei whakamīharotanga, hei whakahīhītanga anō mō te wāhi ki ngā whakatutukihanga nui a te tangata. Ā mohoa nei, he mea tautoko ēnei mahi e ngā kāwanatanga. Heoi anō, i te tau 2021 i tino piki te nui o ngā haerenga tuarangi tūmataitī a ngā kaipōkai tuarangi rapa – nāwai i noho hei mahi mā te mātanga kua āta whakangungua, ka wātea kē hei nanaioretanga atu mā ngāi whairawa.

Nā te maeatanga ake o te tāpoi tuarangi hei mahi mā te hunga nui nei te whairawa, kua tīmata tā ētahi arotake mēnā rānei ka whai hua ake te ira tangata ina whakamahia te pūtea ka whakapaua ki ēnei rerenga hei whakatau i ētahi o ngā take ā-taiao, ā-koutangata anō hoki o te wā e pā nei ki te ao.

Heoi anō, ko ētahi e kite kē ana i te nui o te monihua me ngā āheinga ā-pakihi ka puta i te whakawhanake i ngā mahi tāpoi tuarangi. E tohe nei rātou, ka oti ngā ‘pakanga rauemi’ i hua ai ngā tautohe ā-koutangata, ā-hauropi anō hoki mā te whai wāhi ki ngā rauemi me te hangarau ka puta i te whanaketanga o te tūhura i tuarangi.

TE RAUEMI A: Te whāinga kia noho ko tuarangi hei ūnga hou mō te wae tāpoi.

Tae noa mai ki tēnei wā, he ruarua noa iho ngā tāngata kua tae ki te poutūmārōtanga, ki tua rānei o te kōhauhau o Papatūānuku. I ēnei rā, ko te āhua nei, e taea ana e te tangata, ahakoa ko wai, te pērā, mēnā he pērā rawa te nui o te whairawa hei hoko i ngā tīkiti.

Ko te whānuitanga o ngā tohe e tautoko ana i te pōkai i tuarangi e pēnei ana:

- Mā te tirohanga i tuarangi e whai tirohanga hou ai te tangata ki te ao, me te aha, ka tokomaha ake pea te hunga ka tautoko i te whakaaro me āta tiaki ia.
- [REDACTED]
- [REDACTED]

- Mā ngā rauemi ka kitea i tuarangi, mā te kawe anō i ngā hanganga whakahara ki tuarangi e iti iho ai pea te nui o te whakataetae mō ngā rauemi, o te parahanga anō hoki i te ao.

Ko te whānuitanga o ngā tohe e whakahē ana i te pōkai i tuarangi e pēnei ana:

- Kua whai whakaahua kē tātou o te ao mai i tuarangi – ehara i te mea me hoki ki tuarangi e mārama ai tātou ki te motuhaketanga o te ao.
- [REDACTED]
- [REDACTED]

- Ki te kore e oti i te ira tangata te whakatau ngā take ā-hauropi, ā-koutangata anō hoki e pā nei ki te ao, he aha ia te hua o te kawe atu i aua raru rā ki wāhi kē?

THE NATURE AND CAUSE OF THE CONFLICT SURROUNDING THE SPACE TOURISM INDUSTRY

INTRODUCTION

Space travel has long been a source of fascination and pride in the achievements of humans. Until recently, it's been funded by governments. However, 2021 saw a huge increase in private space travel by amateur astronauts – what once had been the field of highly trained professionals is now within the reach of billionaires.

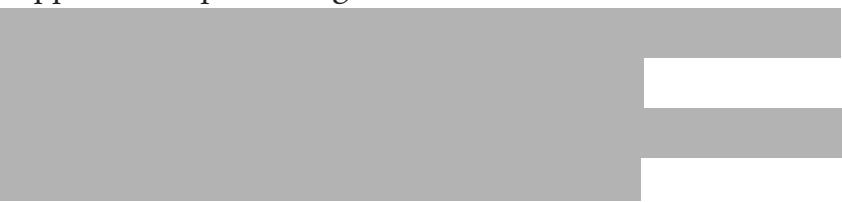
The emergence of space tourism for the extremely wealthy has led some to question whether humanity would be better served using the funds for these flights to solve some of the current environmental and humanitarian issues facing planet Earth.

Others, however, can see large profits and business opportunities arising from developing space travel. They argue that the 'resource wars' that cause humanitarian and ecological conflicts can be solved by accessing the resources and technology that the development of space exploration will afford.

RESOURCE A: The quest to make space the next tourist destination

Until now, only very few humans had made it to the upper reaches of Earth's atmosphere and beyond. Now it seems that anyone who is wealthy enough to buy tickets can do it.

The arguments for space travel are broadly that:

- The view from space gives a new perspective on Earth and may make people more supportive of protecting it.


- The resources found in space and exporting heavy industry into space may lessen competition for resources and pollution on Earth.

The arguments against space travel are broadly that:

- We already have images of Earth from space – we don't need to go to space to appreciate Earth's uniqueness.


- If humanity cannot resolve ecological and humanitarian issues on Earth, why export those same problems elsewhere?

NGĀ ĀHUA WHAKAARO, NGĀ UARATANGA, ME NGĀ TIROHANGA O NGĀ TĀNGATA TAKITAHİ ME NGĀ RŌPŪ E WHAI WĀHI ANA KI TE TAUTOHE

Ngā tirohanga tikanga ā-iwi e hāngai ana

Te ōhangā	He pekanga mātauranga e aro ana ki te whakatupu, ki te whakapeto, me te whakawhiti rawa.
He aumangea taiao	He tangata e whakapono ana me tiaki, me whakamaru anō te taiao, ā, e hiahia ana ki te kimi ara e toitū ai te noho, mō te āpōpō o te ao te painga.
He aumangea koutangata	He tangata e whakapono ana me tautoko te tokoora o ngā tāngata katoa, ā, e hiahia ana ki te whakapai ake i ngā āhuatanga noho o ērā e rawakore ana.

TE RAUEMI B: Ko wai mā e whai wāhi ana?

Ka taunuhi a ngāi whairawa

Kua hōhā katoa a Warren Gunnels, te Kaitohutohu Kaupapa Here Matua mā te mema o te Kāhui Hanga Ture o Amerika, mā Bernie Sanders, i te āhua o te whakataetae i waenga i te hunga whairawa e pohane ana ki te pōkai i tuarangi, ka mutu, kia tae tuatahi atu.



Ka tukitukia ngā āhua tuku ā-āhuarangi e te tāpoi tuarangi

Rangahau ai a Takuta Eloise Marais, Ahorangi Tūhono i te mātauranga Matawhenua Tūroa ki University College London, i ngā pānga o ngā kora mātātoka me ngā momo hanganga ki te kōhauhau. Kua tekau tau rāua ko tētahi pūkenga rangahau i tana rōpū e whakahaere ana i tētahi kaupapa whaihanga e kitea ai mēnā e hāngai ana ngā tukuhanga nō ngā tākirirangi ki ngā mātāpuna taketake.

POINTS OF VIEW, VALUES, AND PERSPECTIVES OF THE INDIVIDUALS/GROUPS INVOLVED IN THE CONFLICT

Relevant social studies perspectives

Economics	A branch of knowledge concerned with the production, consumption, and transfer of wealth.
Environmentalist	A person who believes in looking after and protecting the environment, and wants to find ways of living sustainably for the future of the planet.
Humanitarian	A person who believes in supporting the welfare of all people, and wants to improve the living conditions of those living in poverty.

RESOURCE B: Who is involved?

Billionaires blasted

The competition between billionaires with a lust for space travel and a desire to win the space race has left Warren Gunnels, Senior Policy Advisor for US Senator Bernie Sanders, distinctly unimpressed.



Climate sacrifices undermined by space tourism

Dr Eloise Marais, Associate Professor of Physical Geography at University College London, studies the impact of fossil fuels and industries on the atmosphere. She and a research fellow in her group have been running a decade-long simulation to figure out if emissions from rockets could compete with traditional sources.

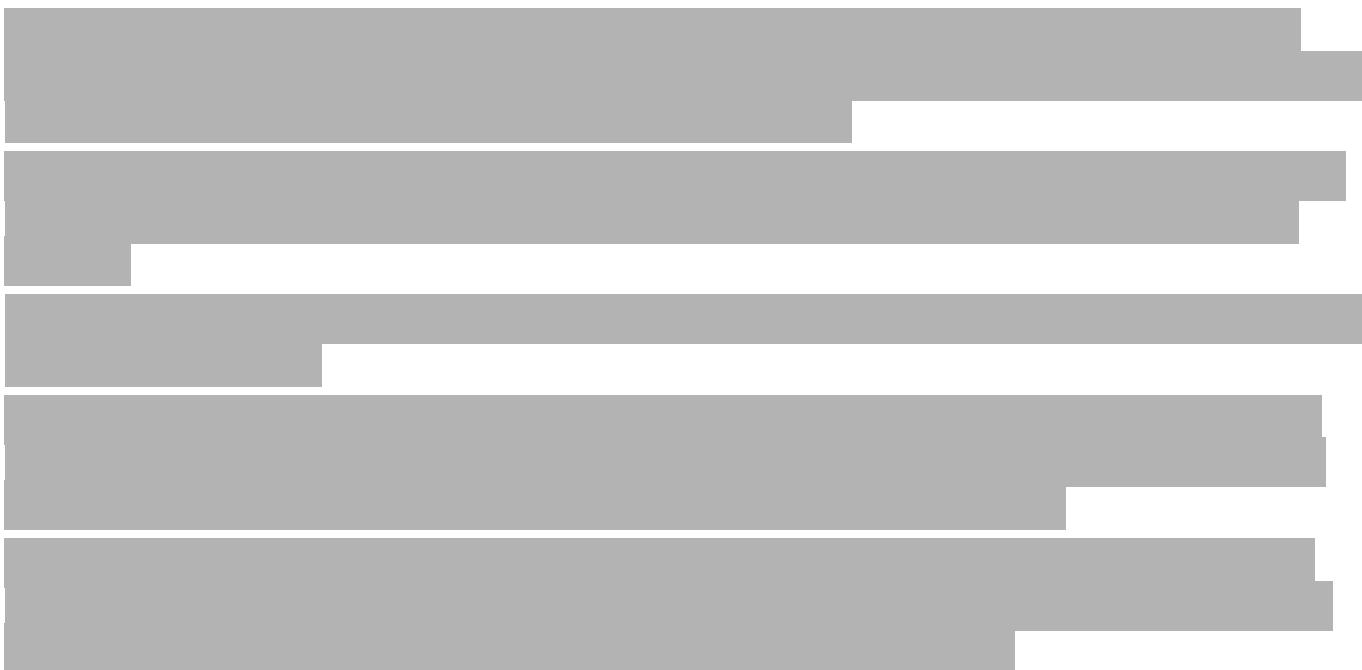




“Me aro ngātahi te ao whānui ki te whakaū i ētahi waeture hei whakamauru i ngā pānga kino ka pā pea ki te kōhauhau nā tēnei ahumahi [e maea ake ana].”

He pānga pai rānei ka tau ki te taiao i ngā uakihanga ki tuarangi?

Hei tā Jeff Bezos, nā runga i tana wheako pōkai i tuarangi i te tau 2021, i tupu tētahi whakamaiohatanga hou i roto i a ia mō te aro ki te tairaru āhuarangi i konei, i te ao, ā, ko tāna i muri i tana haerenga, me tuku “ngā ahumahi parahanga katoa” kia āmio i tuarangi.



“Me para e tātou he huarahi ki tuarangi, e pai ai tā ā tātou tamariki me ā tātou mokopuna para i te huarahi ki te āpōpō”, tāna i kī ai.

Ko te tāpoi tuarangi tētahi huarahi pai e whakapau ai te hunga whairawa i ā rātou pūtea

Ko Dale Skran, te Tumuaki Tuarua Matua / Tumu Whakahaere Mātāmua o te Kāhui Tuarangi ā-Motu o Amerika (NSS), tētahi kaitaunaki matua i te tāpoi tuarangi, ā, ko tāna i tuhi ai i ētahi pūrongo huatau i te tau 2021: “He rite tonu te tohe a te hunga whakahē i tā Richard Branson haerenga ki tuarangi, kāore ūna take, ka mutu, he kino te tāpoi tuarangi hei huarahi whakapau pūtea. Heoi anō, e noho tauaro ana ngā kōrero tika. E kitea ana ngā painga katoa o ērā atu ahumahi e aronui ana ki te hunga whairawa, pēnei i te hanga me te whakahaere tīwai, i te tāpoi tuarangi . He tokomaha te hunga ka whai mahi i ēnei ahumahi, e mahi ana i ngā mahi whaitake, pēnei i te hanga tīwai, me te pai hoki o te utu i a rātou. Ko te tāpoi tuarangi hoki e pērā ana, engari ka kaha ake te pērā i te mea, nā te tāpoi tuarangi i heke ai te nui o te utu uaki, ka wātea ake ngā rauemi tuarangi katoa ki tētahi mākete matatini. Ka rangona te painga nui o te tāpoi tuarangi ka heke ana i a ia te utu uaki, kia wātea ai he ngao parahanga kore, utu ngāwari anō hoki, nō tuarangi ki te ao whānui”.

“There really needs to be an international effort to develop regulation to at least mitigate the impact this nascent [emerging] industry could have on the atmosphere.”

Could space launches have a positive impact on the environment?

Jeff Bezos has said the experience of shooting himself into space in 2021 brought a newfound appreciation for tackling the climate crisis here on Earth, and suggested sending “all polluting industry” into orbit following his rocket trip.

“We have to build a road to space so that our kids and their kids can build a future,” he said.

Space tourism is a great way for billionaires to spend their money

Dale Skran, Senior Vice President / Chief Operating Officer of the US National Space Society (NSS), is a strong advocate for space tourism, stating in a 2021 opinion piece: “Those people with their hair on fire over Richard Branson’s ride to space often claim that there is something particularly pointless and even evil about space tourism as a way to spend money. In fact, the truth is quite the opposite. Space tourism has all the real benefits of any other industry that caters mainly to the rich, such as yacht construction and operation. These industries employ large numbers doing real, well paid, honest work, e.g. building yachts. Space tourism holds out the same promise, but more so, since as space tourism drives down launch costs, all space resources become more potentially available to a mass market. The real benefit of space tourism comes when it has driven down launch costs to the point that inexpensive clean energy from space is available pollution-free everywhere on Earth”.

NGĀ ĀKINGA Ā-PĀPORI KUA WHAI WĀHI KI TE TAUTOHE, TAE ATU KI NGĀ PĀNGA

TE RAUEMI C: Te taha ūhangā o ngā pāngā pakihī

Te mahi mātātoa e haere ake nei

Kua tino whanake te tāpoi tuarangi mai rā anō i te tau 1967, e whakaahua ana a Barron Hilton, te tumuaki o te wā o ngā Hōtēra o Hilton, i tana whāinga kia whakatūria he hōtēra ki te marama.



Ka pērā i te mea he rite tonu tā te wae tāpoi ngana ki te whakawhānui i ngā momo āheinga, nō rātou e whai ana ki te toro ki ētahi wāhi hou, kia whai wheako hou anō hoki. E kitea ana tēnei tūāhua i ngā kōwhiringa hāereere a te tangata. E ai ki te pukapuka e kīia nei ko *Leisure and Aging*, “Ko te tāpoi mātātoa tētahi o ngā pekanga o te mākete tāpoi e tere katoa ana te tupu. Kua pērā rawa tōna rorotu, ko tōna 100 miriona pakeke kua kōwhiri i ngā hararei mātātoa mā te hunga ihupuku.” Ko te tāpoi tuarangi te kokenga arorau i tēnei ia e tupu haere ana.



Kua tae ki te takiwā tuarangi arumoni.

I tua atu i te para i tētahi anō ara hei whai mā te hunga aru i te wanawana, ko te tāpoi tuarangi tētahi huarahi hou hei whakapakari i te ūhangā o te ao. E ai ki tētahi pūrongo nā te Kaunihera mō te Hāereere me te Tāpoi ā-Ao, e \$7.2 tiriona tāra (e 9.8 ūrau o te tapeke wāriu hokonga o te ao) i ahu mai i te tāpoi, ka mutu, e 284 miriona ngā tūranga mahi – ko tōna rite, ko te tūranga kotahi o ia 11 tūranga i te ao i te tau 2015. Me whakapono ka tika ka pērā hoki te āhua o ngā pāngā o te tāpoi tuarangi ki te ūhangā.

SOCIAL FORCES THAT HAVE CONTRIBUTED TO THE CONFLICT, AND THEIR EFFECTS

RESOURCE C: Economics of business interests

The next big adventure

Space tourism has come a long way since 1967 when Barron Hilton, then president of Hilton Hotels, described his vision for a hotel on the moon.



That's because tourists have always pushed boundaries, seeking new places and experiences. You see this playing out in how people are choosing to travel. According to the book *Leisure and Aging*, "Adventure tourism is one of the fastest-growing segments of the tourism market. It has become so popular that approximately 100 million adults have chosen vacations that are classified as soft adventure." Space tourism is a logical next step for this growing trend.



The commercial space age is here.

In addition to adding another outlet for thrill seekers, space tourism offers a new way to boost the world's economy. According to a report conducted by the World Travel & Tourism Council, tourism generated \$7.2 trillion (9.8 per cent of the global gross domestic product) and provided 284 million jobs – for a total of one out of every 11 jobs on the planet in 2015. There's every reason to believe that commercial space travel will have a similar impact on the economy.

Ahakoa arā tonu ngā mōreareatanga, e tika ana te whakaaro he roa tonu te huarahi me para i ngā mahi tāpoi tuarangi e pai ai te utu mā te papapori waenga. Heoi anō, ka pērā ana, kia takatū ki tētahi haerenga mātātoa whakamīharo.

TE RAUEMI D: Te tiaki taiao me ngā whakaaro o te marea

Kātahi te wā pōrangī mō te wehe i te ao



Ngāi tuarangi whairawa , tēnā whakaarohia te minenga – kāore he aha ki te iwi ko wai mā i mahue i a koe i tō taehanga ki tuarangi.

I muri i tā Jeff Bezos pānui ka eke ia i te rerenga tuatahi a tana kamupene tākirirangi, a Blue Origin, i te tau 2021, tino kore nei a Richard Branson e tuku kia hinga ia i tētahi atu. Nā reira ka piri a Branson ki te tira haere o te rerenga a Virgin Galactic e haere ake ana, e iwa rā i mua i te tōkiritia o Bezos ki tua o te rangi.



Me mihi tonu rāua, inā hoki kua tāpae a Branson i tētahi utu whaipānga āhuarangi, ā, kua oatia Bezos ki te whakapau i te \$10 piriona tāra ki ngā kaupapa āhuarangi. Engari, i runga i ngā āhuatanga kua pā ki te ira tangata i ngā tau kua hori, e ahu pēhea ana ō rāua whakaaro?

While risks remain, it is fair to assume that space tourism has further to travel before it becomes the affordable domain of the middle class. But once it does, be ready for a stellar adventure.

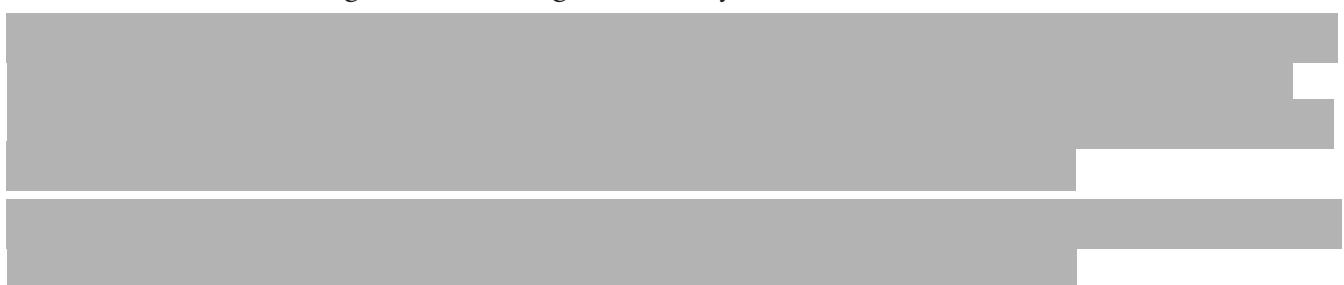
RESOURCE D: Environmentalism and public opinion

A terrible time to leave Earth



Space billionaires, please read the room – no one cares who you beat to space.

After Jeff Bezos announced that he would join the first crewed flight by his rocket company, Blue Origin, in 2021, Richard Branson just couldn't let himself be outdone. So Branson joined the crew of his next Virgin Galactic flight, nine days before Bezos went vertical.



To their credit, Branson has proposed a climate dividend, while Bezos has pledged to spend \$10 billion on climate efforts. But given what humanity has been through in the past couple of years, what are they thinking?

He aituā ā-whakaaturanga

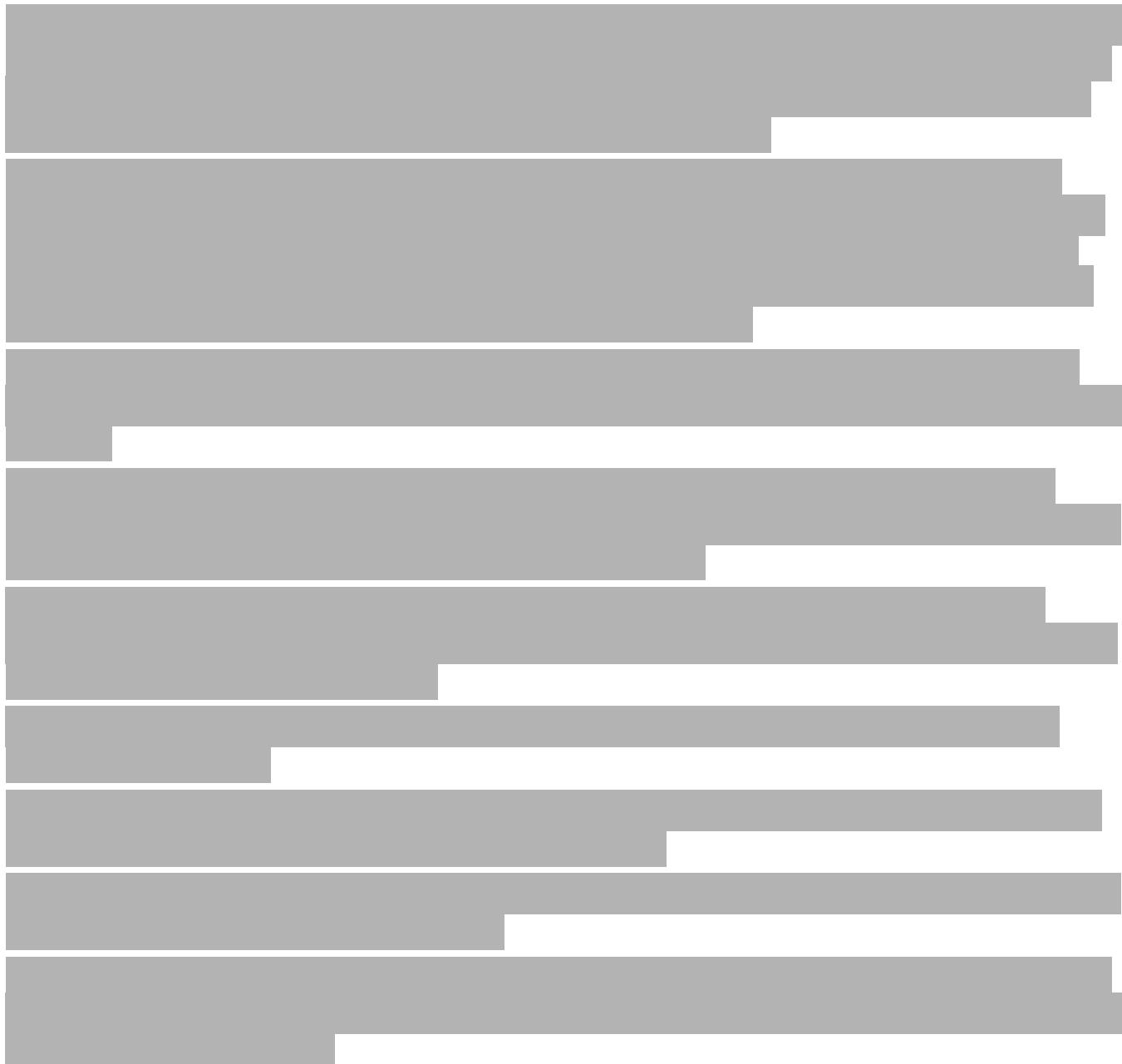
Tērā ētahi tāngata whairawa tokoiti i aro ki te pōkai i tuarangi i te tau 2021. Heoi anō, ka tāwhia pea te āpōpō o te tāpoi tuarangi i te kaha haere o ngā whakahē a te marea i tēnei āhuatanga tōtōā o rātou. E ai ki tētahi rangahau hou, koni atu ana i te toru hauwhā o ngā tāngata i Peretānia (UK) e whakaae ana ko te mahi e tika ana mā te hunga whairawa pēnei i a Jeff Bezos rātou ko Elon Musk, ko Richard Branson, “ko te whakamahi i ā rātou rawa ki ngā kaupapa e aro nei ki ngā raru nui e pā nei ki te ao, pēnei i te āhuarangi hurihuri, i mua i te aro ki te pōkai i tuarangi”.



Kua puta ētahi urupounamu e pā ana ki te tāpoi tuarangi i ngā whakaaro o te marea. E matatika ana rānei? He kino rawa rānei ngā pānga ki te taiao? I te mutunga iho, e kore pea te tāpoi tuarangi e raru i ēnei urupounamu, engari, kua ākina ngā kamupene tākirirangi kia whai whakaaro ki ngā huarahi e āta arohia ai ēnei āwangawanga.

A publicity disaster

A handful of billionaires spent 2021 blasting into space. But a growing public backlash against their extravagance could curb the future of space tourism. More than three quarters of people in the UK think wealthy individuals, such as Jeff Bezos, Elon Musk, and Richard Branson, “should focus their resources on problems facing Earth, like climate change, before space travel”, according to a new study.



Public opinion has raised questions about space tourism. Is it morally acceptable? Is it simply too damaging to the environment? These questions may or may not harm space tourism in the long run, but they have encouraged rocket companies to consider ways to address these concerns.

Mātāmua ko te tiaki i te ao, tēnā i te tāpoi tuarangi

Nōna e kōrero ana mō te whakataetae kia tae ki tuarangi, me te whāinga kia whakatairangahia te tāpoi tuarangi, i puta i a Piriniha William te kōrero: “Me aro ngā tino toki o ngāi hinengaro kakama, o ngāi hirikapo atamai ki te whakaora anō i tēnei ao, kaua ki te ngana ki te kimi i tētahi wāhi noho hou.”



Ko tā William ki a Adam Fleming nō te BBC, nōna i uiuitia mō te īpāho o Newscast, “kāore ana paku hiahia” ki te tae ki tuarangi, ka mutu, “e noho rehurehu tonu ana” te utu waro o ngā rerenga tuarangi.



Ka uiuitia a Piriniha William e Adam Fleming nō te BBC.

Saving Earth should come before space tourism

Speaking about the current space race and the drive to promote space tourism, Prince William said: "We need some of the world's greatest brains and minds fixed on trying to repair this planet, not trying to find the next place to go and live."



William told the BBC's Adam Fleming in an interview on the Newscast podcast that he had "absolutely no interest" in going as high as space, adding there was a "fundamental question" over the carbon cost of space flights.



The BBC's Adam Fleming interviews Prince William.

He mihi

He mea whakahāngai ngā kōrero nō ngā mātāpuna e whai ake nei hei whakamahinga i tēnei whakamātautau: (he mea tiki atu i te 25 o Māehe, i te tau 2022).

Te Rauemi A

- Whārangi 2: <https://theconversation.com/space-travel-for-billionaires-is-the-surprise-topic-with-bipartisan-american-support-but-not-from-gen-z-165309>
<https://www.oxfam.org.nz/news-media/billionaires-blast-into-space-as-billions-suffer-on-planet-earth/>
<https://www.youtube.com/watch?v=RrQcVHzU1h4>

Te Rauemi B

- Whārangi 4 https://www.theguardian.com/science/2021/jul/20/bezos-space-travel-blue-origin-amazon-criticism (te tuhinga me & 6: te whakaahua)
<https://www.geog.ucl.ac.uk/news-events/news/climate-sacrifices-undermined-by-space-tourism-says-dr-eloise-marais> (te tuhinga)
<https://news.knowledia.com/GB/en/articles/jeff-bezos-calls-for-moving-all-polluting-industry-into-space-after-e9f02b6b99f16132706fc90a665c09391eb1175f> (te tuhinga)
<https://www.independent.co.uk/climate-change/jeff-bezos-space-pollution-amazon-b1887510.html> (te tuhinga)
<https://www.nytimes.com/2021/07/21/business/space-tourism-climate-change.html> (te tuhinga)
<https://space.nss.org/why-space-tourism/> (te tuhinga)

Te Rauemi C

- Whārangi 8 https://www.ucf.edu/pegasus/space-tourism/ (te tuhinga)
& 10: https://hbr.org/2021/02/the-commercial-space-age-is-here (te whakaahua)

Te Rauemi D

- Whārangi 10, <https://www.theatlantic.com/science/archive/2021/07/space-billionaires-jeff-bezos-richard-branson/619383/> (te 12, & 14: tuhinga me te whakaahua)
<https://www.forbes.com/sites/oliverwilliams1/2021/12/21/billionaire-space-race-turns-into-a-publicity-disaster/?sh=16a93de45e4d> (te tuhinga)
<https://www.bbc.com/news/uk-58903078> (te tuhinga me te whakaahua)

Acknowledgements

Material from the following sources has been adapted for use in this examination (accessed 25 March 2022).

Resource A

- Page 3: <https://theconversation.com/space-travel-for-billionaires-is-the-surprise-topic-with-bipartisan-american-support-but-not-from-gen-z-165309>
<https://www.oxfam.org.nz/news-media/billionaires-blast-into-space-as-billions-suffer-on-planet-earth/>
<https://www.youtube.com/watch?v=RrQcVHzU1h4>

Resource B

- Pages 5 and 7: <https://www.theguardian.com/science/2021/jul/20/bezos-space-travel-blue-origin-amazon-criticism> (text and image)
<https://www.geog.ucl.ac.uk/news-events/news/climate-sacrifices-undermined-by-space-tourism-says-dr-eloise-marais> (text)
<https://news.knowledia.com/GB/en/articles/jeff-bezos-calls-for-moving-all-polluting-industry-into-space-after-e9f02b6b99f16132706fc90a665c09391eb1175f> (text)
<https://www.independent.co.uk/climate-change/jeff-bezos-space-pollution-amazon-b1887510.html> (text)
<https://www.nytimes.com/2021/07/21/business/space-tourism-climate-change.html> (text)
<https://space.nss.org/why-space-tourism/> (text)

Resource C

- Pages 11 and 13: <https://www.ucf.edu/pegasus/space-tourism/> (text)
<https://hbr.org/2021/02/the-commercial-space-age-is-here> (image)

Resource D

- Pages 11, 13, and 15: <https://www.theatlantic.com/science/archive/2021/07/space-billionaires-jeff-bezos-richard-branson/619383/> (text and image)
<https://www.forbes.com/sites/oliverwilliams1/2021/12/21/billionaire-space-race-turns-into-a-publicity-disaster/?sh=16a93de45e4d> (text)
<https://www.bbc.com/news/uk-58903078> (text and image)

English translation of the wording on the front cover

91279MR

Level 2 Social Studies 2022

91279M Demonstrate understanding of conflict(s) arising from different cultural beliefs and ideas

Credits: Four

RESOURCE BOOKLET

Refer to this booklet to answer the questions for Social Studies 91279M.

Check that this booklet has pages 2–17 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.