**Life in Space**

**Task 1 Speaking**

1. **Imagine you can choose any place on Earth to move to and you´ll spend the rest of your life there. What are the factors you´ll consider when making the decision?**
2. **What factors do we consider when looking for habitable planets?**

**Task 2 Video – Could we actually live on Mars?**

**Before you watch: Use some of these phrases to speculate about the likelihood of people once colonising Mars:**

*I imagine… There´s no doubt… I know for a fact that… In all probability, …*

*My guess is… I would say… I am convinced that… I suppose… It may / could / might…*

**Watch and answer the questions:**

1. What does one need to tolerate on Mars? What does one need to bring?
2. Why won´t you get an ocean view on Mars?
3. What might Mars look like today if it had surface water?
4. Why do we believe the southern hemisphere is older?
5. In what way are the deserts on Mars similar to those on Earth? How do they differ?
6. What are the unique features of Mars?
7. Why do dust storms on Mars last for months and cover the planet?
8. How wide is Valles Marineris?
9. What makes sunsets on Mars blue?

(<https://www.youtube.com/watch?v=DMMPYkRrd4o>)

**Task 3 Comparing and Contrasting**

**Use the phrases from below to complete the sentences:**

***compared to in contrast similar unlike while difference***

1. *Perseverance* has a ………………… design to its predecessor rover, [*Curiosity*](https://en.wikipedia.org/wiki/Curiosity_(rover))*,* from which it was moderately upgraded.

# ……………….. Curiosity has studied environments where ancient microbes could have lived, Perseverance will seek direct signs of ancient life and prepare geological samples that a future mission could bring back to Earth.

1. What are the benefits of manned space missions ……………. the unmanned ones?
2. One …………….. between humans and robots is that humans require lots of resources, such as water, food and oxygen.
3. …………….. humans, robots do not require radiation shielding.
4. In terms of size, Venus is almost a twin planet of Earth.

………………., Mars is much smaller.

**Use some of the phrases below to compare Venus, Earth and Mars:**

*twice as……. as…, compared with/to…, one similarity…, unlike…, the difference between…*

**Venus Earth Mars**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mean solar day 116.8 Earth days | | | 24 hours 24 hours 37 min | |  | | |
| Equatorial radius (km) 6,051.8 | | 6,371.00 | | 3,389.5 | | |
| Surface temperature (°C)462 | -88/ + 58 -153/ +20 | | | | |  | | |
|  |  | | | | |  | | |

**Task 4 Video: Should we live on Venus before Mars?**

[**https://www.youtube.com/watch?v=HyAG1Oien4M**](https://www.youtube.com/watch?v=HyAG1Oien4M)

**Watch the video and answer the questions:**

1. **What makes Venus an unlikely candidate for human colonisation?**
2. **What is the suggested solution for colonisation?**

**Explain the meaning of the expressions in italics:**

The red planet has been *all the buzz* with NASA and SpaceX.

We could get there in next *10-ish* years.

Many problems with this idea *revolve around* money and technology.

We´d need to figure out how to *combat* various physical issues.

People have some pretty *viable* ideas for space colonies in Venus´s *neck of the woods*.