

Conceptual Understanding Project 2017-2018

Science, Technology and English – Year 7 and 8, Term 4



The story so far...

The surface of the Earth has become uninhabitable. Humanity's last hope is to delve beneath the surface to survive. This requires a new way of living and a new home- this is where you come in!

Your mission:

You have been voted the leader of your community. You are responsible for the safety and well-being of your colony so you must design a living space beneath the surface.

Things to consider

- Why is it no longer safe to live above the surface?
- Where will you build your sub-surface colony?
- How will you provide the basic necessities of life (food, water, energy)?
- How will life be different?
- How will society be different?
- What will be some of the greatest problems to overcome?

Task

You have the option of presenting your findings in a number of different ways:

- Create blueprints and designs for your living space
- Create a video captain's log
- Create a scale model of your living space
- Create a journal with illustrations of the colony and living space

You must include:

- An explanation of how you have adapted your new habitat to its environment
- Evaluate how successful your habitat is- will this be a suitable home until the scouts can visit the surface?

Helpful links:

<http://www.bbc.com/future/story/20150421-will-we-ever-live-underground>

<http://www.sciencealert.com/experiments-show-that-humans-can-sleep-for-days-when-living-alone-underground>

<http://www.bbc.com/future/story/20130930-can-we-build-underwater-cities>