



Space Station Design Workbook

Name: _____

Class: _____

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Femme 5 / AEP

The five main needs on a space station are:

1. _____
2. _____
3. _____
4. _____
5. _____

What two Elements do you need for the air you will breathe?

1. _____
2. _____

Why do we need this mix?

An astronaut needs at least _____ of water each day in space to survive.

An astronaut needs at least _____ of food each day in space to survive.

What are the three characteristics of the food that astronauts eat are most important:

1. _____
2. _____
3. _____

In order to make using restroom facilities safe and sanitary, astronauts use _____ style toilets and sometimes _____.

Power for the space station is mostly provided by _____ and stored in _____.

The best way to sustain a long term drinking water supply is to _____.
At times _____ and _____ are combined but this means that they need to be brought up into space at liftoff.

Human waste cannot be dumped into space because

_____. Waste must be _____.

Exercise is essential to astronauts in space. Explain why riding a stationary bike is better than lifting weights or playing racquet ball.

What do astronauts need to do to maintain proper hygiene?

What is a good way to produce a long-term breathing air solution for astronauts? How much space will it take?

What is a good way to produce a long-term food solution for astronauts? How much space will it take and what are the best options?
