

Designing a Space Station

Lesson Title: *Designing a Space Station*

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Name: _____

Refer to the following resource when answering the below questions:

Tango III: A Space Settlement Design

<http://www.belmont.k12.ca.us/ralston/programs/itech/SpaceSettlement/Contest/Results/96/winner/>

- Who will benefit from the proposed space settlement?
- What human, material, and energy resources will be needed to build, install, operate, and maintain the space settlement? Where will they come from?
- What are the primary technologies that will be utilized? Are there risks associated with them?
- Can you think of alternatives to those proposed that would achieve the same ends? If so, what are they? What evidence do you have that they would be better?
- What are the financial costs? Are these clearly stated in the proposal? Can you identify any costs that were not mentioned by the writers?
- What are the risks involved in the design? Who bears the risks? How serious are they?
- How will waste products in the space settlement be disposed of and at what costs?