



Space Station Design Workbook

Name: _____

Class: _____

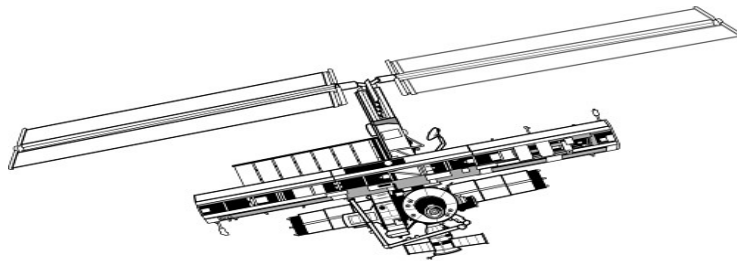
Mr. Zushma
Femme 5 / AEP

Problem Statement:

Design and build a model of a space station that could be used by astronauts in the future.

Research:

What is a space station?



The International Space Station (ISS) orbits 220 miles above the earth. It is a laboratory created to conducted experiments focusing on life science and materials science.

Define Life Science:

Define Materials Science:

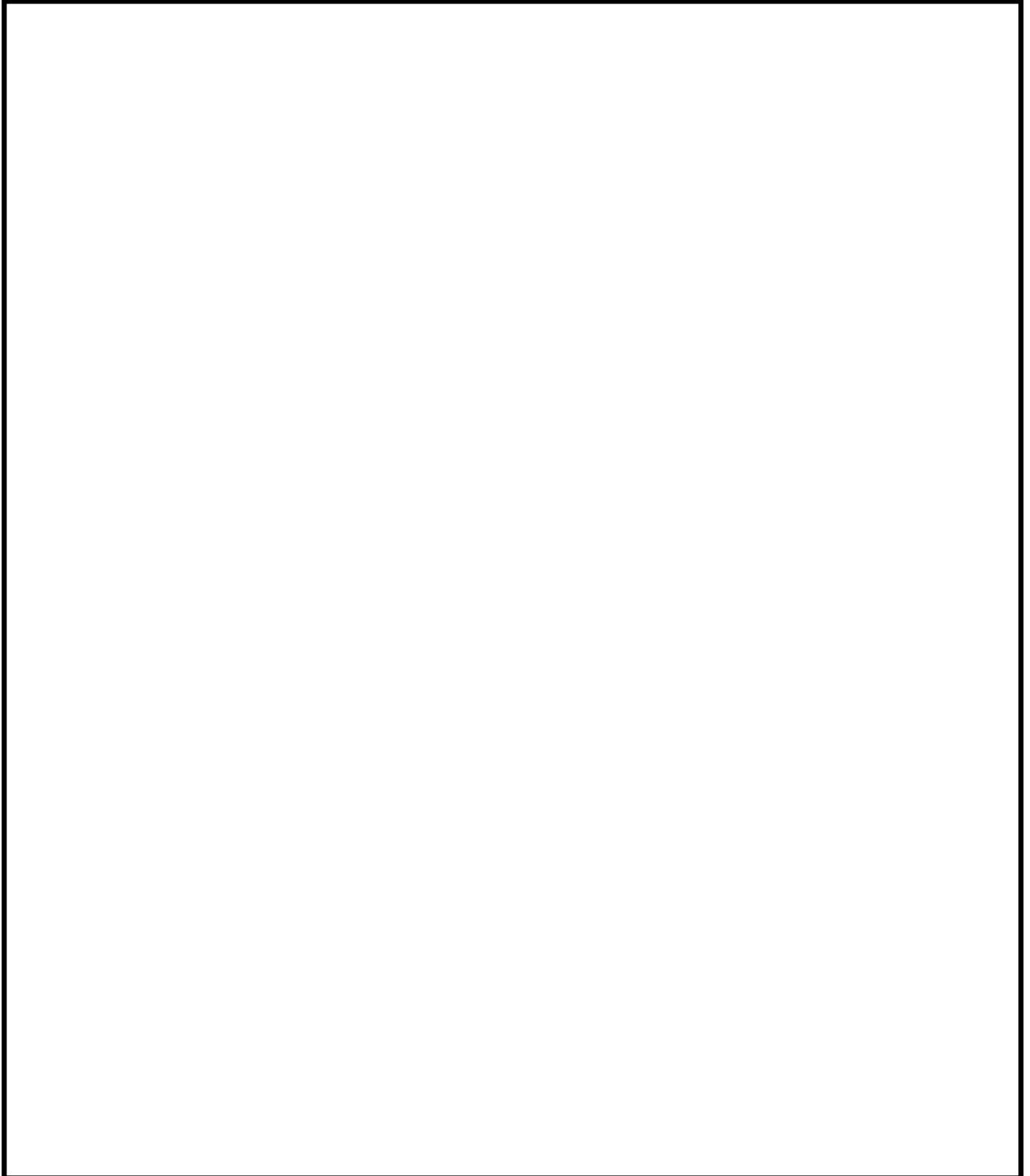
Design Criteria:

Your space station must contain the following areas:

- Laboratory
- Equipment and Supply Storage Unit
- Living quarters
- Solar array for power
- Robotic arm for repairs (optional)

Brainstormed Idea:

Sketch label and explain a floor plan for your own idea for your space station design. Use drawing tools and color to express your ideas. Be sure to include all required areas and what may be contained within.



Space Station Design Rubric

Brainstormed Idea (50 Points)

	<i>Points Earned</i>			
Clearly Drawn	0	5	10	20
Defined Theme	0	2	5	10
Complimentary Colors	0	2	5	10
Variation of Ideas	0	2	5	10
Total Brainstorm Points	_____			

Final Solution (25 Points – Group Grade)

	<i>Points Earned</i>			
Clearly Drawn	0	5	10	15
Defined Theme	0	2	5	10
Complimentary Colors	0	2	3	5
Total Final Solution Points	_____			

Final Design Model (25 Points – Group Grade)

	<i>Points Earned</i>			
Well thought out/planed	0	2	3	5
Creative Use of Materials	0	2	3	5
Quality of work produced	0	2	3	5
Attention to detail	0	2	3	5
Teamwork	0	2	3	5
Total Explanation Points	_____			

Total Points Earned _____ / 100