VR Lunar Habitat Video Rubric

After landing on the moon, NASA will need to build a habitat for astronauts to live in for missions as long as 6 months. The Habitat will be made of inflatable modules connected together and covered with lunar soil to protect the crews from radiation and micrometeorites. The Habitats will need to be filled with exercise equipment, systems to recycle the air and water, hygiene activities, space suits for going outside, furniture, construction tools and a greenhouse for supplying some food. All of these and supplies will take up a lot of space for 4 people and need to be organized in a style that leaves the most volume for the crew to live in. 1/6th gravity is also an important consideration that may allow some creative use of structure and living space. This video is the beginning of what will become a virtual reality program for the astronauts to comment on for their home from Earth.

1. Airlock Module

1. a. Raised porch area for entering the airlock (allows dust to fall off suits before entering)



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Mark only one oval.



3. c. Fire extinguisher, Hatches

Mark only one oval.

4. d. Lighting and Climate controls--on module wall near hatch

Mark only one oval.

2. Main Habitat Module

5. a. ECLSS systems—Oxygen Generating System, Carbon dioxide Removal System, Water Reclamation 1 and 2, water tank.

Mark only one oval.



6. b. Hygiene area-Toilet, Shower, sink-should be close to ECLSS equipment but they don't all need to be in the same room.

Mark only one oval.



7. c. Lab-scales, microscope, glove box

8. d. Furniture-Tables, Chairs, utensils, Dishes, stowage

Mark only one oval.



9. e. Communications center, laptop computers

Mark only one oval.

10. f. Ventilation to other modules—air ducting from ECLSS equipment

11. g. Fire extinguisher, Hatches

Mark only one oval.

12. h. Lighting and Climate controls--on module wall near hatch

Mark only one oval.

- 3. Stowage Module/Sleeping Module---Right Side
- 13. a. Stowage-Spare parts, food, toiletries, containers, shelves, Tool box

Mark only one oval.

14. b. Containers-5 different sized bags

Mark only one oval.

15. c. Sleeping accommodations—beds, ventilation, storage for personal materials, privacy curtains

Mark only one oval.

16. d. Fire extinguisher, Hatches

Mark only one oval.

17.	e.	Liahtina	and	Climate	controlsor	n module	wall near	hatch

Mark only one oval.

4. Stowage Module/Sleeping Module---Left Side

18. a. Stowage-Spare parts, food, toiletries, containers, shelves, Tool box

Mark only one oval.

19. b. Containers-5 different sized bags

Mark only one oval.

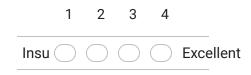
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21. d. Fire extinguisher, Hatches

Mark only one oval.



22. e. Lighting and Climate controls--on module wall near hatch

Mark only one oval.

5. Bamboo Greenhouse Module (expect bamboo team will have more detail)

23. a. Bamboo grow beds/system

Mark only one oval.



24. b. Ventilation in and out of module

Mark only one oval.



25. c. Fire extinguisher, Hatches

26. d. Lighting and Climate controls--on module wall near hatch

Mark only one oval.



27. 6. Did everyone on the team share in the discussion?

Mark only one oval.



28. 7. Comments--Constructive criticism or Compliments related to lighting

29. Comments--Constructive criticism or Compliments related to water piping and storage.

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