

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)

Mark only one oval.

1	2	3	4	5
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. b. 4 space suits, equipment, tools

Mark only one oval.

1 2 3 4

Insu Excellent

3. c. Fire extinguisher, Hatches

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

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.

1 2 3 4

Insu Excellent

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.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

9. e. Communications center, laptop computers

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

11. g. Fire extinguisher, Hatches

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

3. Stowage Module/Sleeping Module---Right Side

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

Mark only one oval.

1 2 3 4

Insu Excellent

14. b. Containers—5 different sized bags

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

16. d. Fire extinguisher, Hatches

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

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

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

Mark only one oval.

1 2 3 4

Insu Excellent

19. b. Containers—5 different sized bags

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

21. d. Fire extinguisher, Hatches

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

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

23. a. Bamboo grow beds/system

Mark only one oval.

1 2 3 4

Insu Excellent

24. b. Ventilation in and out of module

Mark only one oval.

1 2 3 4

Insu Excellent

25. c. Fire extinguisher, Hatches

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

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

Mark only one oval.

1 2 3 4

Insu Excellent

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

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

30. Comments--Constructive criticism or Compliments related to **mixture of air between habitat modules.**

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