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Department of Education



## JUNK TO FUNK: Make a Moon Base

Building Sustainable Moon Habitat with Recycled Materials

Judge Sheet

### Design & Making Models

\*This sheet is an example standard to judge the learning performance during collaboration and problem-solving process. This sheet can help teachers observe and record students' learning process, providing evidence for final summary. If time available, students can use it for self and peer assessment.

CATEGORY		10-9: Excellent	8-6: Good	5-3: Satisfactory	2-1: Needs Improvement
Knowledge		Accurately applies key concepts and extended core knowledge	Uses core knowledge correctly with minor guidance/hint	Requires directly knowledge references	Needs step-by-step instruction and guided concept exploration
Teamwork	Share Ideas	Explains ideas clearly and helps team agree	Shares ideas when asked to; listen carefully	Sometimes quiet in discussions; short responds	Needs teacher's help, e.g. needs sentence starters
	Participation	Leads task division, completes complex work, assists others actively	Finishes assigned tasks and suggests simple roles	Needs reminders to do complex work	Learns by doing small tasks
Problem Solving	Research	Finds, filter and use best facts independently	Finds some good facts	Needs help picking facts	Use facts teacher offered
	Requirement	Have cool ideas and creativity	Meet the basic requirement	Needs instructions/tips	Needs step-by-step guidance
Regulation		Makes clear plan and changes it when needed	Follows plan and fixes easy problems	Follows plan but needs help from friends	Makes small goals with teacher



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### Blank sheet - Process

Process	Category		Team 1	Team 2	Team 3	Team 4	Team 5	Team 6	Team 7	Team 8
<b>Discuss &amp; Design</b>	Knowledge									
	Teamwork	Share Ideas								
		Participation								
	Problem Solving	Research								
		Requirement								
Regulation										
<b>Total</b>										
<b>Make Models</b>	Knowledge									
	Teamwork	Share Ideas								
		Participation								
	Problem Solving	Research								
		Requirement								
Regulation										
<b>Total</b>										



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## Summarize Event

\*This sheet is an example standard to judge the presentation and final work. If time available, students can use it for self and peer assessment.

### Presentation

CATEGORY	10-9: Excellent	8-6: Good	5-3: Satisfactory	2-1: Needs Improvement
Clear Ideas	Explains all ideas in order, use presentation skills (e.g. give examples, Q&A...)	Tells main parts but misses details	Needs hints to describe	Answers teacher's guiding questions
Teamwork	All team members speak and help each other	Shares talking but not smoothly	Only 1-2 people present	Practices roles with teacher
Confidence	Speaks loudly, smiles, use gestures	Speaks clearly but looks at notes sometimes	Speaks softly, needs reminders	Presents with teacher
Visual Help	Uses model/videos/PPT creatively and fun (e.g. role play – <i>one day in Moon base</i> )	Uses model/videos/PPT to explain ideas	Simply introduces the model	Doesn't use model to explain ideas

### Final Model

CATEGORY	10-9: Excellent	8-6: Good	5-3: Satisfactory	2-1: Needs Improvement
Knowledge	Accurately shows 3+ science ideas and applies extended knowledge	Meets basic science rules; Show 1-2 science ideas	Use 1-2 science ideas but some parts don't make sense	Use science ideas under teacher's guidance
Requirement	Have cool and advanced ideas	Meet the basic requirement	Misses 1 requirement	Misses 2-3 requirement
Information	Shows 3+ science facts; numbers all correct	Shows some good facts and simple labels	Information messy or missing	No detailed information
Neat & pretty	Looks awesome with clear zones, show information clear and creatively	Looks neat with clear zones and simple decorations, text clear	Parts look messy, zones mixed, text difficult to read	Model seems not stable, zones mixed up, no text



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### Blank sheet - Outcome

Process	Category	Team 1	Team 2	Team 3	Team 4	Team 5	Team 6	Team 7	Team 8
Presentation	Clear Ideas								
	Teamwork								
	Confidence								
	Visual Help								
Final Model	Knowledge								
	Requirement								
	Information								
	Neat & pretty								
Total									