

Tamarokuto Science Center Exhibit Worksheet (Upper Elementary Grades) Let's Think What is your favorite part of your outfit? About Life on the Moon The main theme of the "Clothing Section" is "Spacesuits". The keyword is "Cosmic Ray". Draw the clothes you're wearing today. Comparing the Earth to the Moon? **Star Profile** Earth Moon Approx. 3500 km Size (diameter) Approx. 13,000 km (Approx. 1/4 of the Earth) Approx. 7.3 \times 10²² kg Mass of Stars Approx. 6x10²⁴ kg (Approx. 1/82 of the Earth) Daytime average 110 °C Average 15.8 °C Temperature Nighttime average -170 °C Atmosphere Yes No 1.6 m/s² 9.8 m/s² School: Grade: Class: Name: Gravity (Approx. 1/6 of the Earth) The number of zeros will be added to the number of digits $\times 10^2 = 100 \cdot 10^3 = 1000$

written in the upper right corner of the 10.

There are cosmic rays flying in outer space. Let's find out if they are coming to Earth.	Let's find out how the earth protects everyone from harmful radiation.	Let's check out what astronauts wear.
Room 1 ? Meet the Science	Room 5 Geoscience	The Corridor Between Exhibition
Cosmic Ray Observation		[Astronauts]
How do cosmic rays travel?	Why do auroras glow near the north pole and south pole?	Why is it shaped like that? How do atmosphere and temperature affect it?
How many times per 10 seconds will it flash? *The number of times will vary. 	The Focus of this Exhibit Magnetic Force, Solar Wind (Radiation)	The Focus of this Exhibit Atmosphere, Temperature, Radiation
Can we go to the moon in our usual clothes? Yes No	The reason is;	



Let's Think What flavors do you like? About Life on the Moon The main theme of the "Food Section" is "Space Food". The keyword is "Gravity". 0 Draw your favorite food! Comparing the Earth to the Moon? **Star Profile** Moon Earth Approx. 3500 km Size (diameter) Approx. 13,000 km (Approx. 1/4 of the Earth) Approx. 7.3 \times 10²² kg Mass of Stars Approx. 6x10²⁴ kg (Approx. 1/82 of the Earth) Daytime average 110 ℃ Average 15.8 °C Temperature Nighttime average -170 °C Г **Atmosphere** Yes No 1.6 m/s² 9.8 m/s² Gravity (Approx. 1/6 of the Earth) School: Grade: Class: Name:

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Tamarokuto Science Center Exhibit Worksheet (Upper Elementary Grades)

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Let's examine how plants are created.	2 Let's experience the gravity of the moon. Can we eat miso soup and ramen in a moon environment?	Check out what astronauts eat.
Exhibition Room 4 Life & Environment [Tree Exhibition]	Exhibition Room 1 ?! Meet the Science [Moon Walker]	Exhibition Room 1 Meet the Science [Space Food]
What do we need to grow vegetables?	Let's imagine and describe it.	Can we eat liquids with a spoon?
The Focus of this Exhibit Germination, Growth	The Focus of this Exhibit Gravity, 1/6	The Focus of this Exhibit Preserving, Packing, Drying
Can we have usual meals on the moon? □Yes □No	The reason is;	

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Let's Think About Life on the Moon	Housing	Section	
	The main theme of the		
"Housing Section" is "Facility".		"Facility".	
The keyword is "Infrastructure".		structure".	
Draw	a house or	a school!	X
Comparing	the Earth to the Mo	Star Profile	
	Earth	Moon	
Size (diameter)	Approx. 13,000 km	Approx. 3500 km (Approx. 1/4 of the Earth)	Draw what you find at home or at school. (Example)
Mass of Stars	Approx. 6x10 ²⁴ kg	Approx. 7.3 \times 10 ²² kg (Approx. 1/82 of the Earth)	• Door •
Temperature	Average 15.8 °C	Daytime average 110 ℃ Nighttime average -170 ℃	· ·
Atmosphere	Yes	No	· · ·
Gravity	9.8 m/s ²	1.6 m/s ² (Approx. 1/6 of the Earth)	
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Let's check why we have	To build a house. Let's find	Let's take a look at what's
access to water and	out what materials are	in the lunar base concept,
electricity in our town.	available on the moon.	as conceived in 1994.
Room 3 System & Mechanism	Room 1 Meet the Science	Room 1 Meet the Science
[Electric Town] [Underground Exploration]	[Moon Sand Replica]	[Lunar Base Concept]
Where do electricity and water come from?	Are Earth's soil and stones found on the Moon?	What do you see there?
	Connect things that match with a line. Plagioclase • • Black Basalt • • White	
The Focus of this Exhibit How Electricity is Delivered, How Water is Delivered	The Focus of this Exhibit Moon Sand, Heating	The Focus of this Exhibit Atmosphere, Power Generation, Dome
What kind of facilities do we need for houses and schools on the moon?	e reason is;	





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	2	8
Look at how our bodies are structured.	Pedaling a bicycle Observe how our legs move.	Let's run and jump in the lunar environment.
Exhibition Room 2 Provide a sense of the bones and muscles that support our bodies.	Exhibition Room 2 Body & Senses [Bone Structure of the Leg] Let's see how joints move.	Exhibition Room 1 ?? Meet the Science [Moon walker] Think about how you can jump to the same height as on Earth.
The Focus of this Exhibit Bone Structure, Muscles Can we make the same movements on the moon as we do on Earth?	The Focus of this Exhibit Bone Structure, Muscles The reason is;	The Focus of this Exhibit Gravity, 1/6



Imagine what life on the moon would be like, then explain it with drawings and words.

What kind of clothes would you wear on the moon?





Imagine what life on the moon would be like, then explain it with drawings and words.



What kind of food would you eat on the moon?





Imagine what life on the moon
would be like, then explain
it with drawings and words.



What kind of house would you live in on the moon?



Imagine what life on the moon would be like, then explain it with drawings and words.



What kind of playtime activities would you enjoy on the moon?