

Let's Think
About Life
on the Moon

Clothing Section

The main theme of the "Clothing Section" is "Spacesuits". The keyword is "Cosmic Ray".

Draw the clothes
you're wearing today.

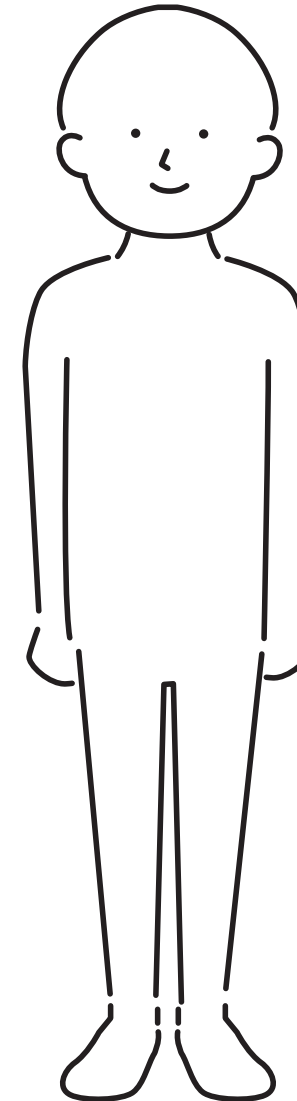
Comparing the Earth to the Moon?

Star Profile

	Earth	Moon
Size (diameter)	Approx. 13,000 km	Approx. 3500 km (Approx. 1/4 of the Earth)
Mass of Stars	Approx. 6×10^{24} kg	Approx. 7.3×10^{22} kg (Approx. 1/82 of the Earth)
Temperature	Average 15.8 °C	Daytime average 110 °C Nighttime average -170 °C
Atmosphere	Yes	No
Gravity	9.8 m/s ²	1.6 m/s ² (Approx. 1/6 of the Earth)

※ $10^2=100$ 、 $10^3=1000$ The number of zeros will be added to the number of digits written in the upper right corner of the 10.

What is your favorite part of your outfit?



School:

Grade:

Class:

Name:

①

Exhibition
Room 1

Meet the Science

[Cosmic Ray Observation]

How does the cosmic rays observation shine?

☐Straight ☐Wriggling

How many times per 10 seconds will it flash?

*The number of times will vary. _____ Times

These rays are called cosmic rays (radioactive rays),

and they travel through space to the Earth.

Let's study what cosmic rays are.

The Focus of this Exhibit

Cosmic Rays (Radiation), Energy, Harm

②

Exhibition
Room 5

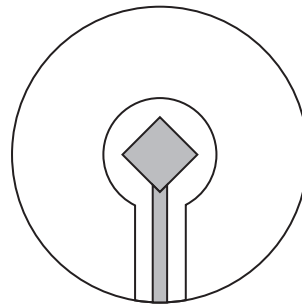
Geoscience

[Aurora]

Where on the displayed

aurora shines brightly the more?

Let's take a look the display and color it.



What force on the Earth protects us from

harmful radioactive rays?

Air • Magnet • Water

The Focus of this Exhibit

Magnetic Force, Solar Wind (Radiation)

③

The Corridor Between Exhibition
Room 5 and the Planetarium.

[Astronauts]

Astronauts wear spacesuits.

Which parts of the body are not covered
by spacesuits?

Head • Legs • None

Why are spacesuits designed in such a shape?

Let's study the impact of air and temperature.

The Focus of this Exhibit

Air, Temperature, Radioactive rays

Can we go to the moon

in our usual clothes?

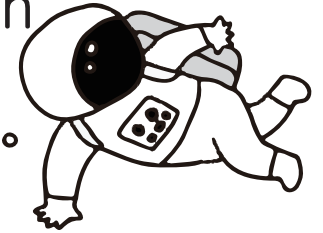
☐Yes ☐No

The reason is;

Let's Think
About Life
on the Moon

Clothing Section

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?

Let's Think
About Life
on the Moon

Food Section

The main theme of the "Food Section" is "Space Food". The keyword is "Gravity".

Draw your favorite food!

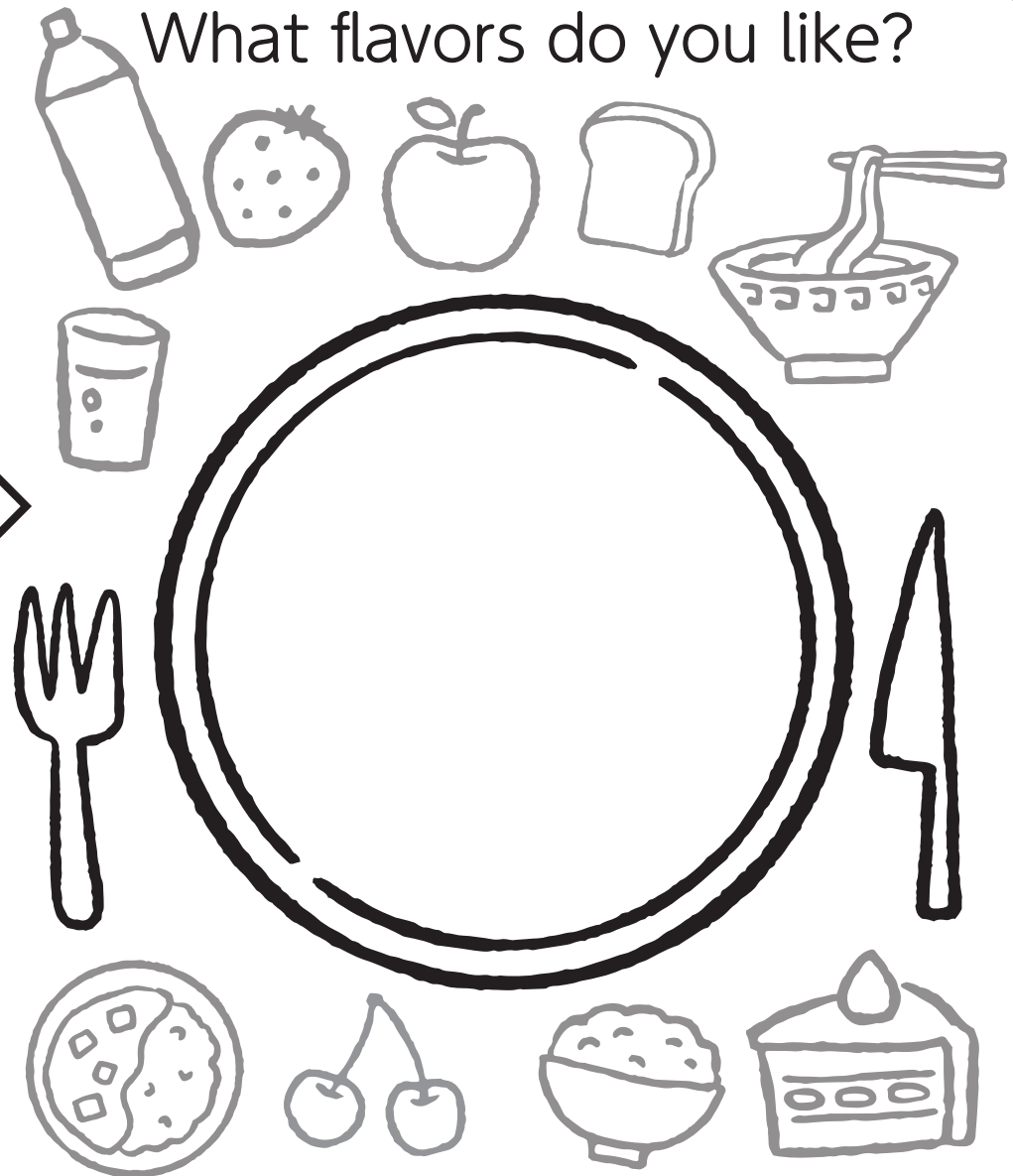
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What flavors do you like?



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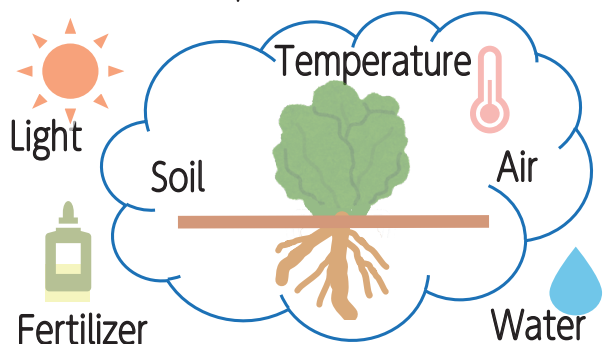
①

Exhibition
Room 4Life & Environment
「Tree Exhibition」

What do you need to grow vegetables?

There is one thing that you do not need.

Put a × mark by the side of the correct answer.

Are things that are needed to grow vegetables
available on the Moon?

The Focus of this Exhibit

Germination, Growth

②

Exhibition
Room 1Meet the Science
「Moon Walker」

How is the gravity on the Moon different

from that on the Earth?

Write the correct number within the parentheses.

If the gravity on the Earth is 1,
the gravity on the Moon is ().

Can we eat miso soup and ramen

in a moon environment?

Let's imagine and describe it.

The Focus of this Exhibit

Gravity

③

Exhibition
Room 1Meet the Science
「Space Food」

What kind of food can be eaten on space?

Let's find out what astronauts eat.

Circle the space food in the displayed list.

Rice · Steak · raw sliced fish ·
Hamburger steak · Parfait ·
sweet beans jelly

What do you do to bring food to space?

The Focus of this Exhibit

Preserving, Packing, Drying

Can we have usual meals on the moon?

☐Yes☐No

The reason is;

Let's Think
About Life
on the Moon

Food Section

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?

Let's Think
About Life
on the Moon

Housing Section

The main theme of the
"Housing Section" is "Facility".
The keyword is "Infrastructure".

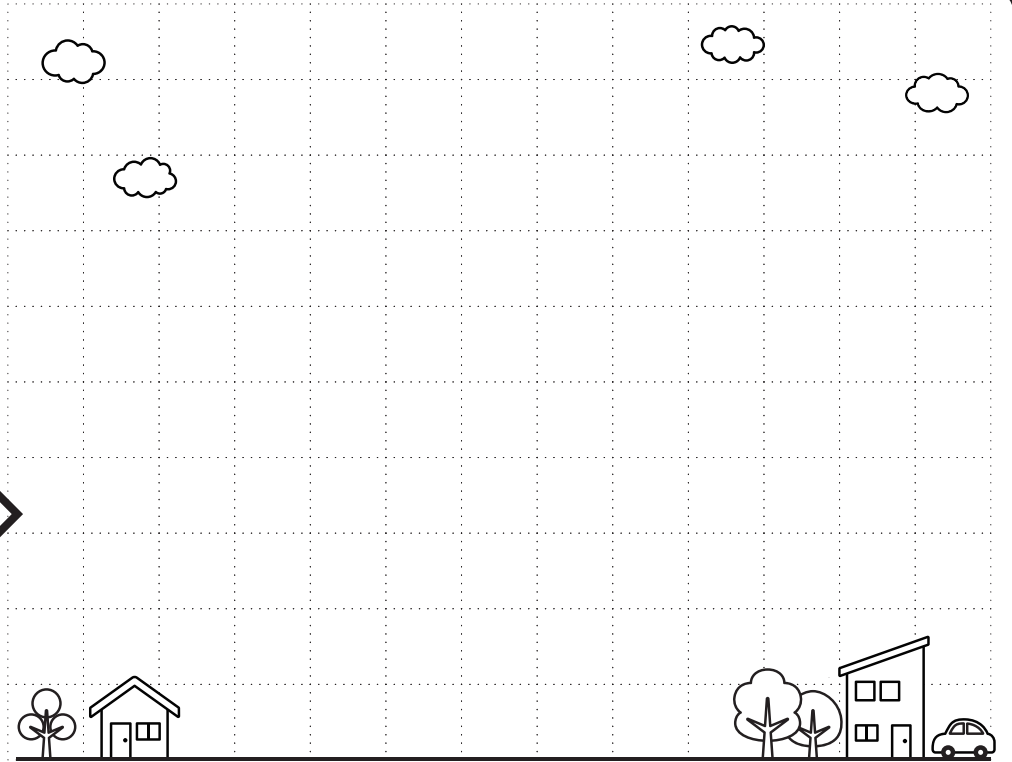
Draw a house or a school!

Comparing the Earth to the Moon?

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Draw what you find at home or at school.
(Example)

- Door
-
-
-
-
-

School:

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Class:

Name:

①

Exhibition
Room 3

System & Mechanism

[Electric Town] [Underground Exploration]

Let's check why we have access to water
and electricity in our town.

Circle the correct answer.



Water reaches the tap at home
from the purification plant via
(water pipes / sewer pipes).



Where does electricity come from?

The Focus of this Exhibit

How Electricity is Delivered, How Water is Delivered

②

Exhibition
Room 1

Meet the Science

[Moon Sand Replica]

Does the Moon have soil
and rocks on it's surface, Yes • No
like the Earth does?

Connect things
that match
with a line.

Plagioclase • • Black
Basalt • • White

To build a house. Let's find out what materials
are available on the moon.

The Focus of this Exhibit

Moon Sand, Heating

③

Exhibition
Room 1

Meet the Science

[Lunar Base Concept]

Circle what has been planned
on the moon base plan in 1994.

Rocket station • Air dome • Wind farm •
Oxygen production plant •
Science museum • Solar power plant

Which facility of the moon base does not exist
on the Earth?

The Focus of this Exhibit

Atmosphere, Power Generation, Dome

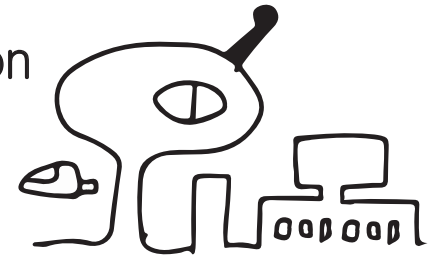
What kind of facilities
do we need for houses
and schools on the moon?

The reason is;

Let's Think
About Life
on the Moon

Housing Section

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?

Let's Think
About Life
on the Moon

Game Section

The main theme of the "Game Section" is "Movement". The keyword is "Gravity".

Write down
your favorite outdoor activity!

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What kind of movement do you like?



(Example)
• Play tag



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①

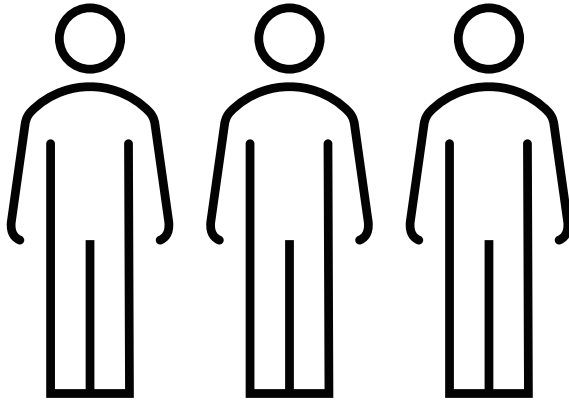
Exhibition
Room 2

Body & Senses

「Human body exploration」

Where are the bones and muscles
that support the body located?

Color the illustration below.



Bone
Structure

Muscles

Organs

The Focus of this Exhibit

Bone Structure, Muscles

②

Exhibition
Room 2

Body & Senses

「Bone Structure of the Leg」



Let's see how your legs move
when you ride a bicycle.

Let's see how the bones move.

Circle the correct answer.

Bones from the knees to the ankles
move (up and down / right and left).

Let's see how the joints move.

The Focus of this Exhibit

Joint, Bone Structure, Direction of movement

③

Exhibition
Room 1

Meet the Science

「Moon Walker」

Let's study how much higher you can
jump on the Moon than on Earth. _____ Times

Let's run or jump in the Moon environment.

Let's think about what kind of movements
you can do on the Moon.

The Focus of this Exhibit

Gravity

Can we make the same movements
on the moon as we do on Earth?

☐ Yes

☐ No

The reason is;

Let's Think
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Game Section

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?