

Exhibition Room 5

In what kind of places do you ride your bike?

# Geoscience Explore Terrain

How does the terrain look when you cycle through it?  
Let's find out where your school stands by using the  
"A 3D Relief Map of the Musashino Plateau,"  
which shows the terrain around the Science Center.

Check the boxes that apply to you.

Where is your school situated, compared to the Tamaroku Science Center

- It's on higher ground
- About the same level
- It's on the lower ground

There is a river between your school and the Science Center:

- Yes
- No

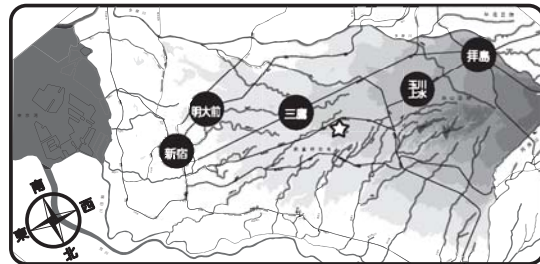
Where is the Science Center?



### Bonus Question

## A 3D Relief Map of the Musashino Plateau

Let's find Tamagawa Josui. The stations indicated by "●" are clues.



### 3 Think for yourself! What kind of path did you take from school to the Science Center?

Let's write about the things that you found on the way from school to the Science Center. Did you find what you expected?

Example...

- |   |             |
|---|-------------|
| • Temple                                | • School    |
| • Library                               | • Flat Road |
| • Supermarket                           | • Field     |
| • Railway Crossing                      | • City Hall |
| • Convenience Store                     | • Hospital  |
| • Sky tower Nishi Tokyo (Tanashi tower) |             |

# Exhibition Rooms Connected with Bicycles

What is a "bicycle" made of? How does it work? Where do we ride?

Let's go on an exploration of the exhibition rooms using "bicycle" as our keyword.

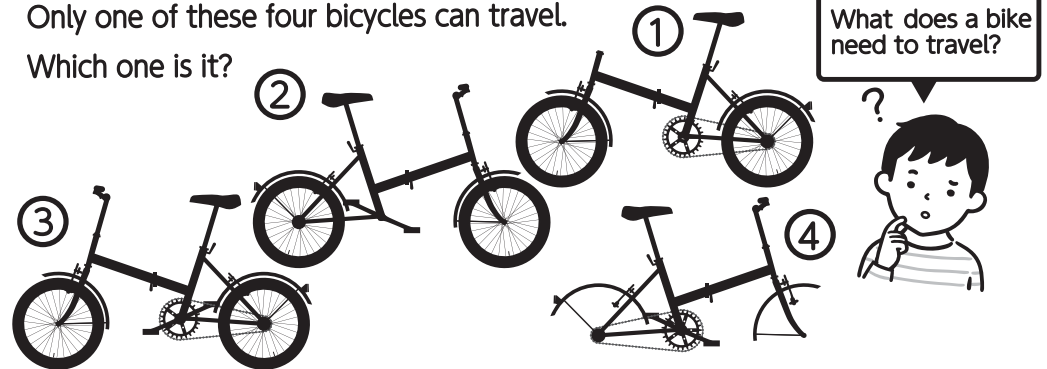
The five exhibition rooms are connected with bicycles, and your view of things will expand.

### 1 Think for yourself! What kind of shape do you think a bicycle is?

Think about what a bicycle needs to be able to travel.

Only one of these four bicycles can travel.

Which one is it?



### 2 Think for yourself! What's the route from your school to the Science Center?

What's between your school and the Science Center?

Think about the landscape and buildings around your house or school, and write down your conjecture.



Example...

- |            |                     |            |
|------------|---------------------|------------|
| • Downhill | • Intersection      | • Station  |
| • Uphill   | • Railroad Track    | • Bus Stop |
| • Field    | • Pedestrian Bridge | • Big Road |
| • Shrine   | • Nursery School    | • Park     |

School: \_\_\_\_\_ Grade: \_\_\_\_\_ Class: \_\_\_\_\_ Name: \_\_\_\_\_

Exhibition Room 1

Meet the Science

# What is a bicycle made of? Exploring Materials

What kind of materials are bicycles made of?

Find the materials used to manufacture a bicycle on the "checker table".

Check the boxes that you think apply.

## Aluminum

Magnets

Stick together

Don't stick together

Electricity

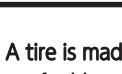
Flow

Not flow

Magnets



Electricity



## Rubber

Magnets

Stick together

Don't stick together

Electricity

Flow

Not flow

The frame is made of durable materials such as aluminum and stainless steel.



A tire is made of rubber.



**Bonus Question**

Experience the "gyroscopic effect," the secret to keeping a bicycle traveling without falling over!

Exhibition Room 2

Body & Senses

How does a bicycle travel?

# Exploring Bodies

How do our legs move when we pedal a bicycle?

Let's move the "bone structure of the leg" and see the joints between the bones.

Check the boxes that apply.

## Hip joint

Move in a circular motion

Bend in one direction



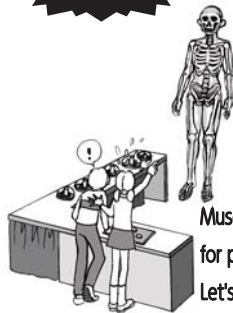
## Knee joint

Move in a circular motion

Bend in one direction



**Bonus Question**



Muscles are also important for pedaling a bicycle. Let's take a look at muscles in "Exploring the Human Body".

Exhibition Room 3

System & Mechanism

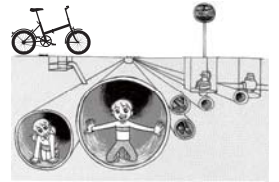
# In what kind of places do you ride your bike? Explore Underground

What's underneath the ground where you ride your bicycle?

Many systems support our lives underground.

Let's find out about those systems by "Exploring Underground".

Check the boxes that apply to you.



## Water for washing hands flows through



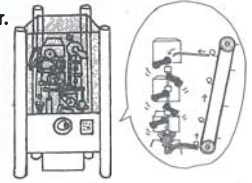
Water pipe

Sewage pipe

**Bonus Question**

Gears are used in bicycles. Let's see how the gears function in the "Mechanical Tower".

Bicycles also have gears and chains that work together.



Exhibition Room 4

Life & Environment

In what kind of places do you ride your bike?

# Explore Thickets

The scenery you see on a bicycle changes with the seasons.

There is a diorama of the "Thicket of Musashino" in the exhibition room.

Find out what kind of creatures are there, and guess the season of the diorama.

Check the boxes that apply to you.

## When does the diorama show the seasons?



Spring

Summer

Autumn

Winter

**Bonus Question**



What insects can you find in a thicket? Let's look for insects in a thicket using "Insect Specimens According to the Environment". Have you ever seen any of these insects before?

How many species are there?

