



Let's make Minato Mirai full of smiling faces through sports

Opportunity for action

Children love to run around. During recess, the children in Class 1 of the 3rd grade like not only to play dodge ball and tag but also to improve their technique on the horizontal bar or for skipping rope. They're happy if they can get advice from their friends so they can succeed in their activity. It's so much fun to play sports with everyone! I want everyone to have a smiling face through sports! Everything started from those simple ideas.



Investigating

There are sports children know and don't know. Sports they've played and not played. In class, they notice that there are differences in the knowledge and experience of sports. There is even a student who says he has played bocce in the park. The students investigated bocce in their dictionaries and encyclopedias.



Seeing

Students could see the excitement of the competition from footage of the Olympics and Paralympics in Rio. After watching a sitting volleyball match, they asked a lot of questions like "What's the difference from playing catch volleyball in PE?"



Doing

Experiencing sitting volleyball

- It's so hard to move forward without lifting your legs.
- It's so difficult not using your legs? I guess my arms will get stronger.
- Maybe there's also sitting dodge ball and sitting basketball.

Experiencing bocce

- It's more difficult to roll the balls than I thought.
- It must be harder for people with disabilities.
- But since this sport was created for disabled people, it should be easy.



Thinking about sports

- What are sports everyone can enjoy?
- Takashima Central Park, where we play baseball, is in Minato Mirai. What other sports can we play there?
- The Rugby World Cup will be held in Japan this year. Next year will be the Tokyo Olympics and Paralympics. Yokohama will be one of the venues.



What we can do

We'll communicate to many people the joy and value of sports. After we explain, we'll hear people's impressions, revise our presentations, and then think how we can make, through trial and error, people joyful through sports.



Thinking about marine environmental problems from the current situation of Takashima Waterfront Park.

Opportunity for action

When children were asked to think about the “good points of Minato Mirai,” many said that it is “near the sea.” But for many children, the image they have of the sea is that it is “dirty,” and that “not many living creatures can live in the sea.” Then with the opportunity to begin to think about “whether there is something we can do,” they began their activities at Rinko Park and Takashima Waterfront Park.

Let’s go see the situation at Rinko Park

Facing the sea, Rinko Park is the familiar place for children. There is so much garbage there, they are worried if marine creatures can live there.



It’s clear!



Is sea water actually clean?



So much garbage!



Hearing from Hama Umikai

Mr. Yoshino from Hama Umikai said: “I want more marine creatures to be able to live in Yokohama’s waters.”

The many reeds in the water make it difficult for living creatures to live there.



Let’s go to see Takashima Waterfront Park

Fish and crabs can be seen in the shallows and tidal flats. Children often say, “There is a lot green there,” but some children also realize that “since there is so much grass and reeds, marine creatures can’t live there.”



Let’s cut away the reeds



Don’t throw away the grass. We can use it!



Thinking about marine environmental problems

- Processing of reeds: Reeds increase very quickly and managing them is a problem. They can be effectively used by processing them into reed blinds or bags.
- Sludge: Sludge collects on the sea bottom, taking away the habitats for creatures living on the sea floor. It also affects the eco-system.
- Co-existence with the sea: Humans’ manipulating of the natural environment has good and bad points. We need to continue to think about the merits for both.

What we can do

We can make reeds cut away useful for daily life by making them into things such as reed blinds or bags. Let’s take away the sludge and make the sea floor an area where marine creatures want to come.



Through their experience with parasports, the children thought about making Minato Mirai a town where anyone can live pleasantly.

Opportunity for action: Parasports

Next year the 2020 Tokyo Olympics and Paralympics will

finally come. With interest in what kind of events will be held, children watched footage from the past Rio Olympics and Paralympics. What greatly impressed them were the scenes of the Paralympians, who participated in their events with such zeal and fun.



They wanted to know the secrets of parasports, which anyone can enjoy.

3 すべての人に健康と福祉を

10 人や国の不平等をなくそう

16 平和と公正をすべての人に

Investigating parasports

The children investigated the equipment and rules for parasports. Equipped with the necessary equipment and support, the children could experience the joy of parasports, regardless of not having a disability. They recognized the value of challenging to one's limits and competing as hard as one can.

Tapping stick

It's a tool used in swimming by athletes with vision disabilities to avoid hitting the pool walls.



Pad
Used by those with arm disabilities for crouching starts for short-distance races.

16 平和と公正をすべての人に

10 人や国の不平等をなくそう

Experiencing parasports

Sitting volleyball

- Enjoyed by those with leg disabilities.
- The 6 players on each side sit while playing.
- When touching the ball, players cannot lift their hips from the floor.

Bocce

- Enjoyed by people with severe cerebral palsy, limb dysfunctions
- The object is to bowl a ball as close as possible to the target, the jack ball.
- If it is difficult to bowl the ball, a slide ramp can be used.

Goalball

- Enjoyed by people with vision impairment.
- All players wear black eyeshades to ensure that players compete while being unable to see anything.
- The object is to throw a ball with bells in it into the goal.
- The court is marked with uneven surfaces for players to feel

Playing bocce

The rules are simple so it's fun.



Since physical power is not required, people without confidence in their strength can play.

Since players can stand or sit, people in wheelchairs can play!



3 すべての人に健康と福祉を

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Making Minato Mirai a town where everyone can enjoy themselves

11 住み続けられるまちづくりを

17 パートナーシップで目標を達成しよう

"I hope that my grandfather, who's in a wheelchair, will be able to enjoy moving about together with us." That's the reflection of a student who experienced parasports. People of all ages – from toddlers to the elderly – live in Minato Mirai. There are also people who experience inconvenience in their daily lives, such as people who have been injured or who suffer disabilities. Children are thinking how they can help make Minato Mirai a place that makes widely available parasports that can be enjoyed by anyone and that provides a comfortable living environment.



Opportunity for action

Last year, activities were carried out to increase greenery in the city. Plans are being considered this year for a “make it yourself” campaign to protect the ocean environment. Students are motivated by the growing problem of microplastic refuse, trash littering the streets, and the garbage seen in Katabira River and Rinko Park. The children will try investigating whether the Minato Mirai sea is polluted.



Thinking about the Minato Mirai sea and the problems of plastic waste flowing from the mouth of the Katabira River and the use of thinned wood

Investigating garbage floating on the sea

We picked up a lot of plastic! Almost all the plastic is used just once.



The sea and river water are clear and look clean!



Where the garbage goes

Tsurumi Garbage Incineration Plant
Minami Honmoku Final Disposal Site
Plastic is incinerated. The final landfill site will be full in 30 years.



Underwater classroom

Our daily lives are deeply tied to the sea environment. There is so much plastic in the sea. This is not good for marine creatures!



Characteristics of trees

Problems facing Japan's forests

If the mountains are not healthy, landslides will occur, and mountains will be ravaged.



If thinned wood is used, the Doshi Mountains will have a lot of trees.



Launch of plastic removal project



In order to protect the marine environment from now, we want to make things to replace plastic that is just thrown away. We'll use wood straws, which protect the sea and mountains!



Making wood straws



They were easier to make than we thought.



Thinking about plastic waste and ocean environmental problems

- **Single-use plastic products:** Many plastic products are used just one and thrown away. These single-use products end up as waste.
- **Microplastics:** Small plastic particles cannot be decomposed in the sea. Great amounts flow into the oceans and accumulate.
- **Rethinking our lifestyles:** We need to continue to weigh our convenience against the burden on the environment and sustainable development and to question what kind of lifestyles we should lead.

What we can do

Try comparing the convenience and usability of plastic straws and wood straws. Let's use and spread wood straws instead of plastic straws!



To protect and maintain a rich ecosystem, thinking about the problems of plastic waste and sludge based on the situation at the Takashima Waterfront Park.

Eelgrass growing up

The eelgrass the students planted last year is getting bigger and flourishing.



Learning about energy for Minato Mirai

Students visited company supplying air conditioners for office and residential buildings.



Opportunity for action

The students investigated the Takashima Waterfront Park when they were fourth graders. There are few people at the park but it has a lot of nature. However, in their study, they were surprised by all the cigarette butts and plastic bags they found. Then they decided to pick up trash there and write leaflets about the park. As a result, the number of people who became interested in the park increased, but they weren't able to achieve a reduction in the litter and trash. In addition, a lot of sludge still accumulates at the park.

Let's learn about the sea at the underwater classroom

Footage shot with underwater Camera shown on school monitors

Moon jellyfish Plastic bag

They look the same. Can't tell the difference!

Garbage from the sea

So much plastic waste!

Students were surprised by the underwater footage because the jellyfish and plastic bag looked so similar. The students could understand how fish could mistakenly eat the plastic bag and then die with the plastic in their stomachs. They learned that the increasing amounts of microplastics, created by the selfish behavior of humans, are harming the environment.

Thinking about plastic waste and ocean environmental problems

- **Microplastics:** Marine creatures ingest the small plastic particles, which stay in their bodies. Not only fish and shellfish are affected.
- **Plastic shopping bags:** Every year, 5 trillion are used. Half are thrown away.
- **Exported Japanese plastic waste:** Japan ranks 30th worldwide in the amount of plastic waste produced, but 3rd in the amount of plastic waste exported.
- **Accumulating sludge:** Eutrophication substances flow into rivers faster than they can be cleaned by nature. The result is sludge.

What we can do

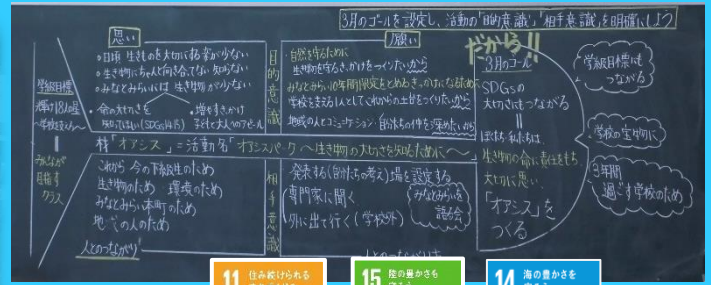
We want to protect the environment for the living creatures in the park by making efforts to reduce the amount of inflowing trash and accumulating sludge. We'll work to prepare a sustainable park environment.



5th year, Class 2



Having ideas



Opportunity for action

In fourth grade, they came into contact with marine life and land creatures at the Waterfront Park. "I want to touch and see many creatures!" and "I like living creatures, but they probably won't come just because of our feelings," children said.

Then the students began to think about the town they live in from the perspective of the "nature" and "living creatures" of Minato Mirai, and through engagement with all the other students in their school and the community residents, they started activities for promoting the idea of "the importance of the life of living creatures" and "increasing the population of living creatures."

Thinking about Minato Mirai from the viewpoint of nature and living creatures.

Contact with the town from nature, living creatures

For living creatures, for the environment, for our school, for the community residents, for the younger students, we want to come in contact with living creatures and make a space for doing so.

Goal setting

We want to make and deepen ties with many people.

Where does the energy for the town come from?

The students visited MM21 DHC to tour a company that makes air-conditioning units for Minato Mirai's buildings and condominiums. They learned about energy systems that are often used unthinkingly.



Underwater classroom

Using footage taken by underwater camera, the "Underwater Classroom" connects the sea and the school classroom. Students could see the impact human activity has on marine creatures.



Where there is marine life

There is a lot of marine life in the nearby Waterfront Park. But there is also sludge and garbage. We want the students to learn more about the park and marine life there.



Protecting MM's nature

Students had a discussion with Mr. Kato, who manages nature in the town. He taught the students about MM's efforts and systems for protecting nature.



Experience, encounters

Learning

Connecting

Actions of 18 people for giving shape to ideas

Students want to know not only the ideas of other students but also the views of many other people, and to give concrete shape to the views of various people. They conducted surveys of the entire school and parents, as well as interviews on the street. They are now searching for actions they can take to face issues.

Thinking through encounters and connections

As they move forward with their activities, students are troubled by the uncertainties of their knowledge. They can connect to the real world through their encounters with nature and living creatures, and think about the current state and future of their town.

「オアシスづくり」に向けて、チームでの活動の心配事や悩み事を18人で共有し、18人で解決しよう。

<p>チーム 西木 隆・門田 宗田</p> <p>「校長先生にどんなこと聞かれるかな...?」</p> <p>「問のため、誰のためにどうしてオアシスをつくるの?」</p> <p>「どんなオアシスにするのか? (どんな生き物...?)」</p> <p>「つくってどんないいことがあがるのか?」</p> <p>「管理体制や実施について」</p>	<p>チーム 入江 大希</p> <p>「どんなオアシスにするの?」</p> <p>「オアシスに水は溜まる?」</p> <p>「生き物はどんな種類を?」</p> <p>「一決するの仕方?」</p>	<p>チーム 田家 敬樹・木村 誠計・麻生</p> <p>「オアシスに置く生き物をどうするの?」</p> <p>「どんな生き物や自然を絵に描くのか?」</p>	<p>チーム 関根 芽都</p> <p>「グループでの集物の仕方はどうする?」</p> <p>「質問を分指する。」</p> <p>「全ての質問を全グループが聞く。」</p> <p>「3人×6グループ 質問の提出を決める。」</p> <p>「MMの冊子をどう持っているか?」</p> <p>「MMの冊子で盛り込むこと。」</p> <p>「オアシス」ほどイメージから生き物を前ったり集物を育てたりしている。」</p> <p>「どんなところでMMに集まってきたか?」</p> <p>「MMにオアシスをつくることってどんなことか?」</p>	<p>チーム 村田 工郎・新田 和也・櫻井 和由</p> <p>「全校、地域の人間に向けてアンケートをつくったよ。」</p> <p>「みんなできてほしい。」</p> <p>「みんなから意見も聞いて...」</p>
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みんなで答えを考えた...

リハサルして...

いざ! 校長へ

「みんなのために」をもっと具体的に!!!

オアシスにどんな生き物や自然を置くのか考えて、少しずつ決めていこう。

街頭インタビューの許可ももらって、グループ決めて、街に出よう!!!

みんなから意見も聞いて...

このアンケートも、早くみんなの考えと出せたい、どうするか...

6th year Class 1



Countermeasures for global warming and the heat island phenomenon

With awareness of the problems of global warming and the heat island phenomenon, the students in this grade think about countermeasures through the “making of things by hand.”



**Thinking about society by making things by hand
~Leaders of tomorrow and SDGs**



Water filtration test using sprinkling device



Making a model energy saving room



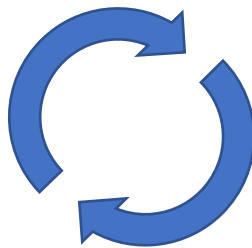
Reducing garbage by soil composting



Mist sprayer to fight the heat island effect



Potpourri for reusing flowers and fruit peels



Action

Making things by hand

- ① Free trial and error (messing about)
- ② Refining problems and goals
- ③ Promoting interest in environmental countermeasures

Feed Forward

Adding value to activities

- ① Adding value from viewpoint of SDGs
- ② Setting new goals
- ③ Promoting interest in environmental countermeasures

Learning today

Adding value to children’s making of things from viewpoint of SDGs.
Setting new goals.

Guest teachers

From Mitsubishi Heavy Industries, etc.



Having a vision for future society

- What kind of society do you want to live in in the future?
- What kind of school should MM Honcho Elementary School be?
- What kind of town should Minato Mirai be?
- What kind of world should we aim for?



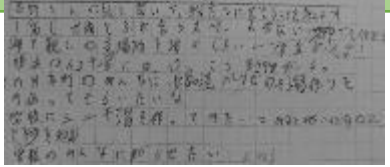
Let's leave the Minato Mirai sea for the future!

Study



Opportunity for action

With many of the students in the 6th grade saying they want the theme for general study to be about nature, the students were requested by the Hama Umikai (Thinking about the Yokohama Sea), which conducts activities for protecting the local sea, to cooperate in the plan to make the Rinko Park lake a tidal flat area. For children who often think, "I've lived near the sea since I was little, but what kind of living creatures are living there?" and "I don't know how the sea can become rich with marine life," this is a chance to begin thinking about what they can do.



What's a tidal flat?

I've heard about it but I don't know what kind of place it is. What's the difference with a lake? What are the good points of a tidal flat?

Under study!



Look



It seems as if diverse creatures make habitats. What's better, sand or mud? What's the balance among the living creatures? How big is it? How about the water quality? What's necessary? There's a lot we don't know.



Lots of crabs!



We can catch shrimp and gobies!

Investigating a tidal pond

I didn't know there are so many living creatures in Rinko Park!



Seeing artificial tidal flat



Is it different from the sand of a seashell beach?

Sea floor has 3 levels

Feed not necessary when seawater is put in. Makes it easier.



Too much garbage in the sea!



Filled with seashell pieces

Seeing natural tidal flat



High tide's pretty dangerous



I wish Minato Mirai had a place where we could play freely at the sea like this!

Oxygen pump and feed necessary for school's aquarium

Compare



Thinking about protecting the sea

- We want to have more places in Yokohama where people can get more familiar with the sea. Rather than concrete landfills, if there were tidal flats, marine life would increase and the water quality would improve. We want to leave places for the future where the children of Minato Mirai can play at the sea.
- Rather than raising fish and other marine creatures, we want to make systems so that they can live naturally in the sea.
- We want to learn more about the Coast Guard's crime prevention efforts and other activities to protect the sea.

What we can do

We will examine our daily lives with concern for the problem of ocean pollution and garbage. We will tell others at school about the richness of the Minato Mirai sea and the good points of tidal flats, and work to make them sustainable.