Reading card

No need
to be afraid of the dark
in this house.

Smart House

SDGs Ninja Challenge
SEKISUI KARUTA

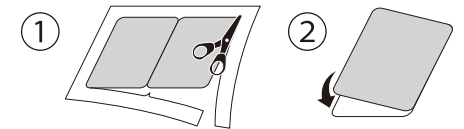## Taking card

Smart Power Station
Smart House

- This system can generate, store, and use electricity.
- The solar panels on the house can generate electricity.
- This electricity can be used at night or in emergency situations.
- The electricity generated by the solar panels can be used without emitting any CO_2.

7 AFFORDABLE AND CLEAN ENERGY

11 SUSTAINABLE CITIES AND COMMUNITIES

13 CLIMATE ACTION

SEKISUI

① Cut along the frame of the card.

② Fold it in half, and stick it together.

①　②

Reading card

Strong and long-lasting —
the trees of the future!

FFU synthetic wood

SDGs Ninja Challenge
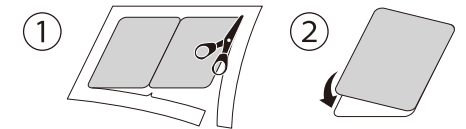SEKISUI KARUTA

Taking card

FFU synthetic wood

● A new synthetic wood-like material made from plastic.
● It is strong, lightweight and does not rot.
● A wood substitute that is perfect for numerous uses around town.
● It is long-lasting, so it does not need to be replaced with new materials. Fewer replacements mean less waste.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

15 LIFE ON LAND

SEKISUI

① Cut along the frame of the card.

② Fold it in half, and stick it together.

①   ②

Reading card

On hot summer days,
a magic film
to cool you down.

Glass interlayer film

SDGs Ninja Challenge
SEKISUI KARUTA
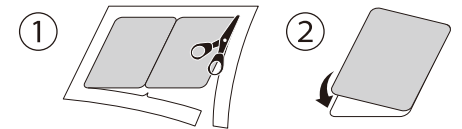
Taking card

Interlayer film

Glass

Glass interlayer film

- The interlayer film is a thin film used in glass for cars and buildings.
- Prevents injuries caused by shattered glass.
- Reduces the amount of heat inside vehicles, and makes building interiors more comfortable.
- Makes air-conditioning more effective, reducing energy use.

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

SEKISUI

① Cut along the frame of the card.

② Fold it in half, and stick it together.

①　②

Reading card

No more
unhealthy pipes.

SPR Method

SDGs Ninja Challenge
SEKISUI KARUTA

Taking card
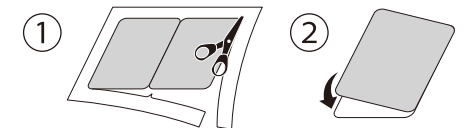
Extending the life of water pipes
SPR Method

- The SPR Method helps to extend the life of old water pipes buried underneath roads.
- The old, damaged pipe remains in place, while a new plastic pipe is inserted inside to reinforce the old one.
- This method makes it possible to keep using existing pipes, reducing waste.
- There is no need to dig up the road above or dispose of extra soil.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

SEKISUI

① Cut along the frame of the card.

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① ②

Reading card

When you feel sick,
we're on the case.

Test Kits
for Infectious Diseases

SDGs Ninja Challenge
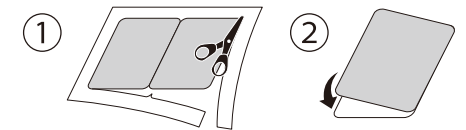SEKISUI KARUTA

Taking card

Test Kits for Infectious Diseases

- These products enable swift testing for sicknesses that pass from one person to another, such as influenza and norovirus.
- Hospital staff can conduct a simple check on phlegm, saliva samples and see the results on the spot.
- Enables swift identification and appropriate treatment of sickness.

3 GOOD HEALTH AND WELL-BEING

SEKISUI

① Cut along the frame of the card.

② Fold it in half, and stick it together.
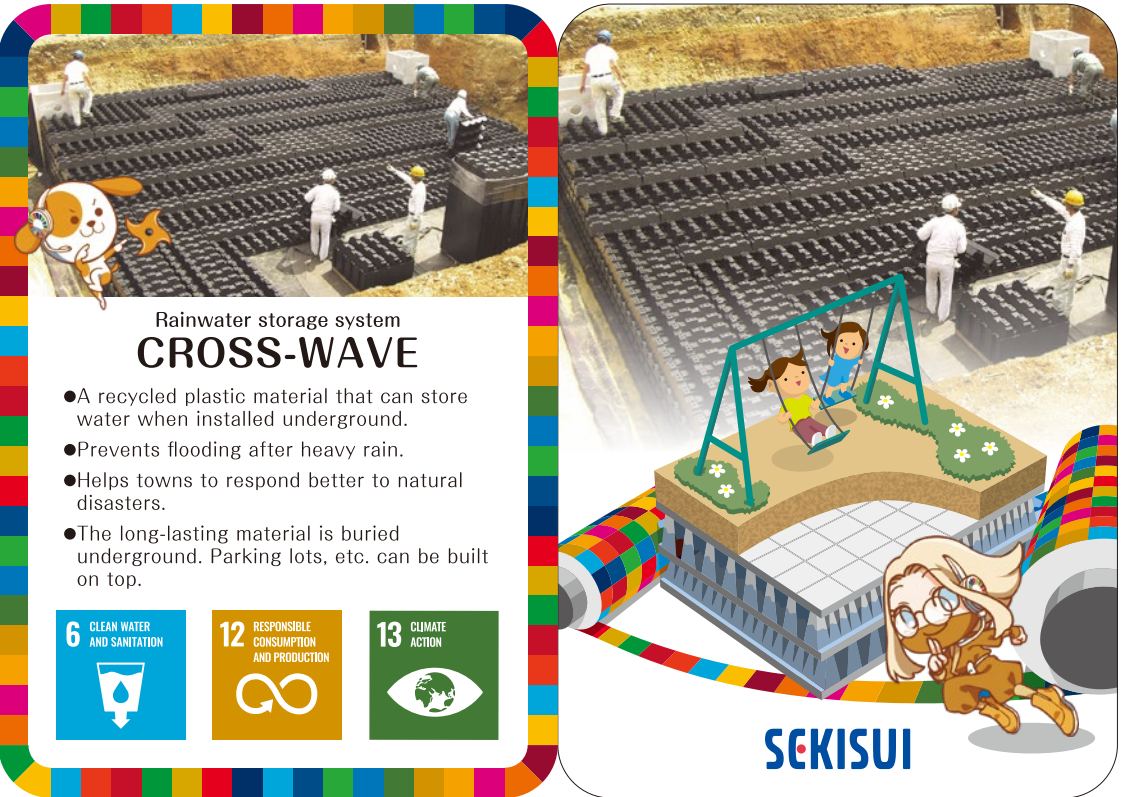
Reading card

Creeping underground,
stronger than rain,
friend of the town.

Cross-Wave

SDGs Ninja Challenge
SEKISUI KARUTA

Taking card

Rainwater storage system
CROSS-WAVE

- A recycled plastic material that can store water when installed underground.
- Prevents flooding after heavy rain.
- Helps towns to respond better to natural disasters.
- The long-lasting material is buried underground. Parking lots, etc. can be built on top.

6 CLEAN WATER AND SANITATION

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

SEKISUI

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① ②
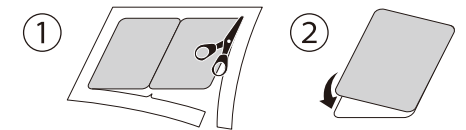
Reading card

Up in the sky —
it's lighter than air!

KYDEX
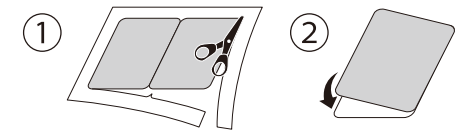
SDGs Ninja Challenge
SEKISUI KARUTA

Taking card

Thermoplastic Sheet
KYDEX

- Recyclable plastic sheet that can be used to make aircraft seats, tray tables, etc.
- Lighter and stronger than conventional plastics.
- Sheet made from recyclable plastic.
- Using this plastic in aircraft makes them lighter.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

SEKISUI

① Cut along the frame of the card.

② Fold it in half, and stick it together.

①　②

Reading card

It's right
under your feet.

MIGUSA

SDGs Ninja Challenge
SEKISUI KARUTA
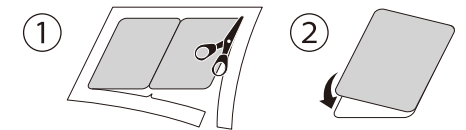
Taking card

Plastic Tatami Mats
MIGUSA

- This new type of tatami mat mixes plastic and natural materials, retaining the characteristics of all-natural mat rush.
- Tatami mats made from strong materials that retain the characteristics of natural mat rush.
- Robust and fade-resistant.
- Comfortable tatami mats resistant to mites and mold.

3 GOOD HEALTH AND WELL-BEING

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

SEKISUI

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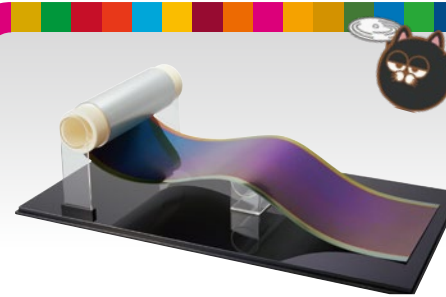
① ②

Reading card

Can you make
a paper airplane?
A paper battery?

Film-Type Solar
Cells for Outdoor Use
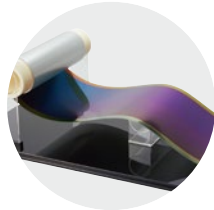
SDGs Ninja Challenge
SEKISUI KARUTA

Taking card

Film-Type Solar Cells for Outdoor Use

- A thin film containing solar cells.
- Able to bend and can be installed on curved surfaces.
- Lightweight and easy to install.
- Can be produced continuously.

7 AFFORDABLE AND CLEAN ENERGY

13 CLIMATE ACTION

SEKISUI

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①　②
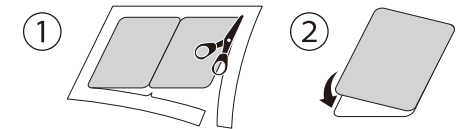
Reading card

Like a three-legged race, everyone needs support.

Wells

SDGs Ninja Challenge

SEKISUI KARUTA

Taking card

Equipment for Nursing Care and Independent Living

Wells

● Bathroom and toilet fixtures for nursing care.
● Equipment such as doors and handrails can be repositioned according to physical capabilities.
● Helps sick and elderly people with immobile limbs.
● Helps them to independently use the parts of their body they can move.

3 GOOD HEALTH AND WELL-BEING

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

SEKISUI

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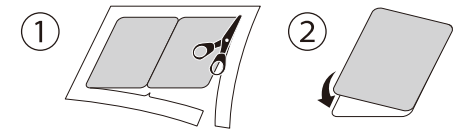
Reading card

It's more fun
with the right
amount of sun.

Airyshade

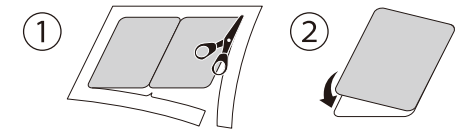SDGs Ninja Challenge
SEKISUI KARUTA

Taking card

Plastic sunshade
Airyshade

- The overlapping pieces of the sunshade create shade in the same way as leaves on trees.
- The small plastic "leaves" are thin and do not absorb heat.
- The sunshade creates a pleasant, shady area for the people below and prevents the ground temperature from rising.
- The sunshade can be used to prevent the heat island effect in urban areas.

3 GOOD HEALTH AND WELL-BEING

13 CLIMATE ACTION

SEKISUI

① Cut along the frame of the card.

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① ②

Reading card

Where's the fire?
Not through here!

Fi-Block

SDGs Ninja Challenge
SEKISUI KARUTA

Taking card

Usually　When fire occurs
Fi-Block
Wall
Pipe
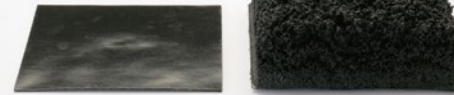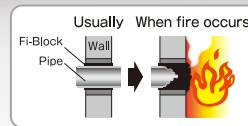
Fire-resistant material
Fi-Block

- A fire resistant material used to prevent fires from spreading
- Fi-Block expands to 10 times its original size when a fire breaks out, and prevents the spread of flames through gaps in buildings such as window edges.
- Safe and easy construction can be as simple as pasting Fi-Block sheet to the area.

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