



NSTDA

NAC2023

18<sup>th</sup> NSTDA Annual Conference  
การประชุมวิชาการประจำปี สวทช. ครั้งที่ ๑๘

## Experience “The activities of the Golden Shower Tree Space Seeds Project in educational institutions”

Presenters:

St Andrews International School Bangkok  
Y8 Japanese students from High School  
Y5 Thai students from Primary School



28-31  
มีนาคม 2566

# Agenda

**1 High School Y7 Japanese & Y9 Thai Language Class  
Space Seeds collaboration Project**

**2 Primary Y4 Thai & Japanese Class Space Seeds Project**

**3 Primary Y6 Japanese Class Space Seeds Project**

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# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



ST ANDREWS INTERNATIONAL SCHOOL  
BANGKOK  
A NORD ANGLIA EDUCATION SCHOOL

### Y7 SPACE SEEDS PROJECT BY: Y8 STUDENTS AYAME, DHANUSH, HANA, HIAYA, KOTOHA, RINJI



# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



ST ANDREWS INTERNATIONAL SCHOOL  
BANGKOK  
A NORD ANGLIA EDUCATION SCHOOL

### WHAT WE WILL TALK ABOUT...

- INTRODUCE OUR SCHOOL
- REFLECTION OF ATTENDING THE CEREMONY ON 20TH DEC.2022
- Y7 SPACE SEEDS PROJECT WITH Y9 THAI LANGUAGE CLASS LET BY KHUN KITTY.
- INSTRUCTION HOW WE PLANTED THE SPACE SEEDS



# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



ST ANDREWS INTERNATIONAL SCHOOL  
BANGKOK  
A NORD ANGLIA EDUCATION SCHOOL

### ABOUT OUR SCHOOL

## “ST ANDREWS INTERNATIONAL SCHOOL BANGKOK”

WE ( YEAR 5,8 AND 9 ) ARE FROM A SCHOOL CALLED ST. ANDREWS INTERNATIONAL SCHOOL BANGKOK.

IT IS LOCATED IN NEAR BTS EKKAMAI STATION.

THERE ARE ROUGHLY ABOUT 2000 STUDENTS IN THE SCHOOL AND MORE THAN 50 NATIONALITIES IN THE SCHOOL.



# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



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ON TUESDAY 20TH DECEMBER, SELECTED STUDENTS JOINED THE HANDOVER CEREMONY WITH NSTDA AT THAILAND SCIENCE PARK, WHICH IS LOCATED IN SCIENCE PARK, PATHUMTHANI.

WE WERE GIVEN THE SPECIAL GOLDEN SHOWER TREE SEEDLINGS FROM THE ASIAN HERB IN SPACE PROJECT WHICH ARE FROM SEEDS THAT WERE SENT INTO SPACE! THE GOLDEN SHOWER TREE IS SPECIAL BECAUSE IT IS THE NATIONAL FLOWER OF THAILAND, AS THE BRIGHT YELLOW REPRESENTS BOTH BUDDHISM AND KING RAMA 9.



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## Space Seeds collaboration Project



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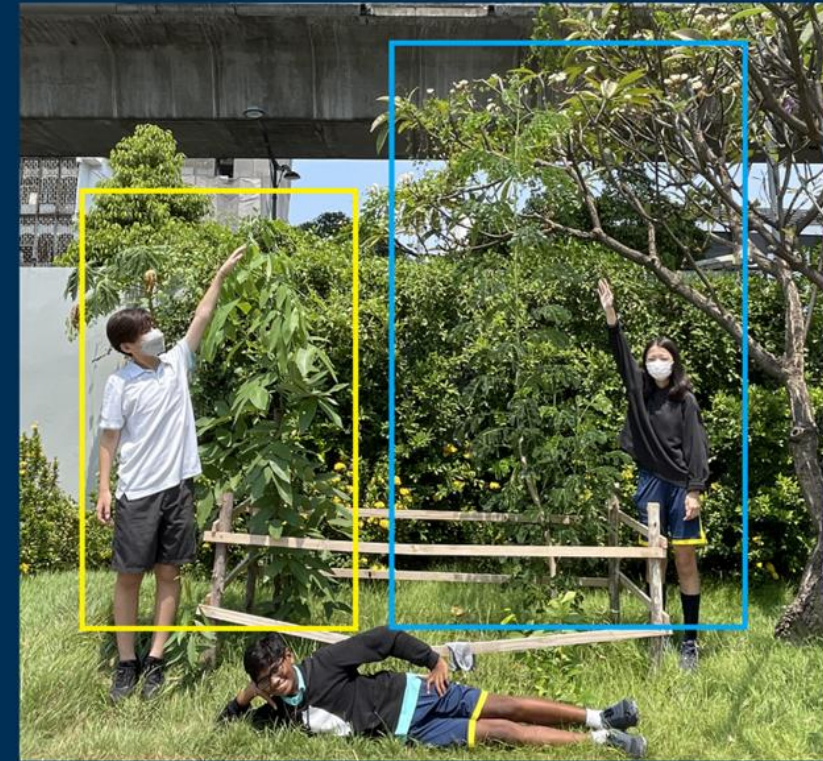
14/11/2022 MONDAY



9/ 3/2023 THURSDAY



23/ 3/2023 THURSDAY



# 1 High School Y7 Japanese & Y9 Thai Language Class Space Seeds collaboration Project



ST ANDREWS INTERNATIONAL SCHOOL  
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THE FAO CONFERENCE  
UNANIMOUSLY  
ENDORSED  
WORLD SOIL DAY  
IN JUNE 2013  
AND REQUESTED  
ITS OFFICIAL ADOPTION  
AT THE 68TH  
UN GENERAL  
ASSEMBLY.



IN DECEMBER 2013  
THE UN GENERAL  
ASSEMBLY RESPONDED  
BY DESIGNATING  
5 DECEMBER 2014  
AS THE FIRST OFFICIAL  
WORLD SOIL DAY.

**DAY 1 : 25/11/2021 THURSDAY  
YEAR 9 FIRST LANGUAGE THAI & Y7 FIRST JAPANESE CLASSES  
WHERE KHUN KITTY LET .**





# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



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### PREPARATION



- SMALL PLANT POTS
- SPADE/FOLK/TROVEL
- SEEDS
- SOIL
- COW DUNG
- WATER-SOLUBLE FERTILIZERS
- EGGSHELL & COMPOST



Mahidol University  
Wisdom of the Land



# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



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STEP 1: WRITING  
NAME ON  
A SMALL POT.



STEP 2: MIXING SOIL



INSTRUCTION

YEAR 7  
FIRST  
LANGUAG  
E  
JAPANESE  
STUDENTS

STEP 3:

ADDING  
AND  
MIXING

EGGSHELL  
&  
COMPOST



# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



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STEP 4:  
PUTTING SOIL  
AND  
THE SEED  
IN A SMALL POT.



STEP 5:

POURING SOME WATER INTO  
SPECIAL LIQUID FOR SOIL  
AND  
POURING ON SOIL IN A POT.



# 1 High School Y7 Japanese & Y9 Thai Language Class

## Space Seeds collaboration Project



ST ANDREWS INTERNATIONAL SCHOOL  
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THANK YOU AGAIN  
FOR GIVING  
THE MARVELOUS MISSION  
TO US.

MR TANIGAKI (JAXA)



KHUN BENG (NSTDA)



DR.TATPONG  
(MAHIDOL UNIV.)



Mahidol University  
Wisdom of the Land

# 1 High School Y7 Japanese & Y9 Thai Language Class Space Seeds collaboration Project



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# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



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A NORD ANGLIA EDUCATION SCHOOL



Primary Y4 Thai & Japanese class  
Collaboration Space Seeds Project

# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



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## SPACE SEEDS ACTIVITIES IN WORLD SOIL DAY

KHUN JOY, HEAD OF THAI IN PRIMARY SCHOOL, COLLABORATED WITH THE YEAR 4 JAPANESE STUDENTS TO UNDERSTAND WHAT WORLD SOIL DAY WAS AND ALSO TO DESIGN A SOIL POT.

STUDENTS THEN WROTE MESSAGES ON CARDS THAT WERE MADE BY KHUN PEE, A DT TEACHER IN HIGH SCHOOL. THE CARDS WERE CREATED FROM RECYCLED DT MATERIALS.

SEEDS WERE THEN PLANTED IN THE SOIL POTS.

AT BREAKTIME, THE STUDENTS GATHERED TO SHOW THE REST OF THE PRIMARY SCHOOL WHAT THEY HAD BEEN DOING AND TO RAISE AWARENESS FOR THE VERY GOOD CAUSE.

## FOLLOW IN FATHER'S FOOTSTEPS



 FOLLOW IN THE FOOTSTEPS OF THE KING  
BIRD THONGCHAI



# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



ST ANDREWS INTERNATIONAL SCHOOL  
BANGKOK  
A NORD ANGLIA EDUCATION SCHOOL



THE FAO  
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5 DECEMBER 2014  
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OFFICIAL WORLD  
SOIL DAY.



Food and Agriculture  
Organization of the  
United Nations

**DAY 1 : 03/12/2021 WEDNESDAY**  
**ST. ANDREWS INTERNATIONAL SCHOOL**  
**YEAR 4 FIRST LANGUAGE THAI & JAPANESE CLASSES**





# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



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## STEP 2:

WRITING A MESSAGE  
WITH  
WORKING GROUL



CREATED BY KHUN PEE  
DESIGN  
TECHNOLOGY  
TECHNICIAN



FOLLOW IN FATHER'S FOOTSTEPS

DAY 2 : 03/12/2021 WEDNESDAY

ST. ANDREWS INTERNATIONAL SCHOOL  
YEAR 4 FIRST LANGUAGE THAI & JAPANESE CLASSES



# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



ST ANDREWS INTERNATIONAL SCHOOL  
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A NORD ANGLIA EDUCATION SCHOOL



THANK YOU FOR SHARING THE SPACE SEEDS WITH US!  
KHUN BENG FROM NSTDA & DR. TATPONG FROM MAHIDOL UNIVERSITY  
WE CANNOT HELP TELLING YOU,  
HOW THRILLED WE ARE TO BE WELCOMING THE SPECIAL SEED FROM SPACE!"



# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



DAY 2 : 03/12/2021 WEDNESDAY  
ST. ANDREWS INTERNATIONAL SCHOOL  
YEAR 4 FIRST LANGUAGE THAI & JAPANESE CLASSES



# 2 Primary Y4 Thai & Japanese Class Space Seeds Project



**DAY 2 : 03/12/2021 WEDNESDAY**  
**ST. ANDREWS INTERNATIONAL SCHOOL**  
**YEAR 4 FIRST LANGUAGE THAI & JAPANESE CLASSES**

Hanging message cards



# 2 Primary Y4 Thai & Japanese Class Space Seeds Project

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**DAY 2 : 03/12/2021 WEDNESDAY**  
**ST. ANDREWS INTERNATIONAL SCHOOL**  
**YEAR 4 FIRST LANGUAGE THAI & JAPANESE CLASSES**



# 2 Primary Y4 Thai & Japanese Class Space Seeds Project

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Observation Records Planting Golden Shower Tree

# 3 Primary Y6 Japanese Class Space Seeds Project



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5 DECEMBER 2021

## World Soil Day

Halt soil salinization,  
boost soil productivity



### Y6 Japanese Class: Students' Challenge Planting Golden Shower Tree



Y6R Cinci's plant



Y6K Mie's plant



Y6R Aki's plant



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Day 1: Tue. 30th Nov. 2021 - Day 68th :Wed. 9th Feb. 2022

# 3 Primary Y6 Japanese Class Space Seeds Project



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Well  
✓ Done



Y6K Mie's plant

Planting



Day 1 :  
Tue. 30th Nov. 2021  
Planting in small pots.

Y6R Cinci's plant



# 3 Primary Y6 Japanese Class Space Seeds Project



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Y6R Aki's plant

Day 1: Tue. 30th Nov.2021

# Watering



# 3 Primary Y6 Japanese Class Space Seeds Project



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Mahidol University



Food and Agriculture Organization  
of the United Nations

**Celebrating  
World Soil Day 2021**

**Day 2 : Fri. 3rd Dec.2021**

# 3 Primary Y6 Japanese Class Space Seeds

Proj



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Day 2 : Fri. 3rd Dec.2021



Writing a message



# 3 Primary Y6 Japanese Class Space Seeds Project



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Food and Agriculture Organization  
of the United Nations

Food and Agriculture Organization of the United Nations  
World Soil Day 2021

## Salty experiments with soil for children and guide for teachers

Let's celebrate soils and take a journey to discover how food begins beneath our feet!

**CHALLENGE**



## Gummy bear experiment

**Material**

- 2 glasses
- Gummy bears
- Water
- Table salt
- Comparative results table

**Method**

1. Fill each glass half full with water.
2. Put two tablespoons of salt in one of the glasses.
3. Stir until the salt is diluted.
4. Put a gummy bear in each glass
5. Leave them for 24 hours.
6. Take the gummies out of the glasses of water and compare the size.

## Salty experiments with soil

## Day 2 : Fri. 3rd Dec. 2021

# 3 Primary Y6 Japanese Class Space Seeds Project



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THANK YOU



World Soil Day 2021



Y6K Mie's plant

Mie & a lovely dog had been taking care of the plant at home.

Winter Holiday Break  
From Sat. 11th Dec. 2021  
To Sun. 9th Jan. 2022



Cinci had been watering every day at home.



Y6R Aki's plant

Aki had been taking care of his plant at home successfully!

# 3 Primary Y6 Japanese Class Space Seeds Project



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Day 56th: Wed. 28th Jan. 2022  
**Observation and Record**



Gardeners  
&  
Estate staff  
helped us  
to transfer  
the plant.

THANK  
YOU

Day 54th: Wed. 26th Jan. 2022



# 3 Primary Y6 Japanese Class Space Seeds Project



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**They assembled the records such as photos and videos.**

**Then, they made a poster by a creativity app, "PicCollage".**



## World Soil day project Year 6 Aki, Cinci, Mie



This is the seed we planted.

December 1st

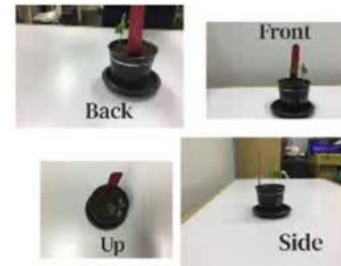


We put the plant in the pot to the garden

This is Aki's plant.



January 26th



This plant is called golden shower. It is Thailand's national flower.

**Day 54th: Wed. 26th Jan. 2022**



PIC•COLLAGE

# 3 Primary Y6 Japanese Class Space Seeds Project

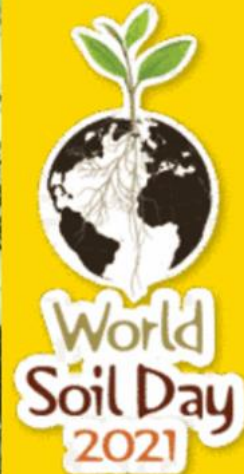


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**Mie**  
created a poster  
by ChatterPix.   
Surprisingly,  
She also found  
there were so many  
mushrooms  
in the flower bed.

Day 61st :Wed. 2nd Feb. 2022





# 3 Primary Y6 Japanese Class Space Seeds Project



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Keep taking Records!

Y6 students kept observing the plant from December 2021 to February 2022. "To be continued".



Day 68th :Wed. 9th Feb. 2022

# 3 Primary Y6 Japanese Class Space Seeds Project



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BANGLADESH

**Thank you so much for listening to our stories of the Golden Shower Tree project.**

## **Agenda**

**1 High School Y7 Japanese & Y9 Thai Language Class  
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**2 Primary Y4 Thai & Japanese Class Space Seeds Project**

**3 Primary Y6 Japanese Class Space Seeds Project**

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