

#### Time breakout

This lesson is around 1.5 hours:

5 minutes – Welcome

5 minutes – Ice-breaker

60 minutes – Theory & Activity

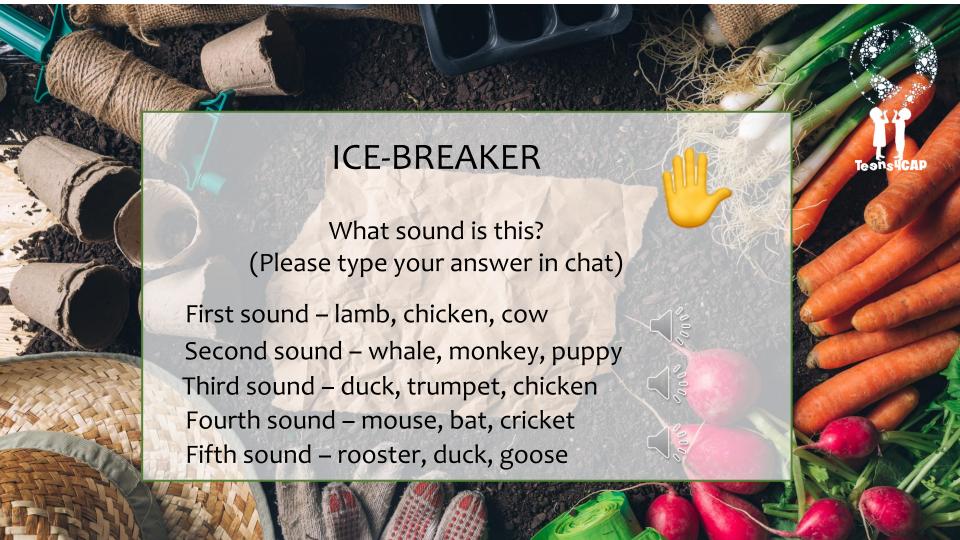
10 minutes – Group Breakout

5 minutes – Conclusion

5 minutes - Announcement

Please mute your speaker when you are not speaking



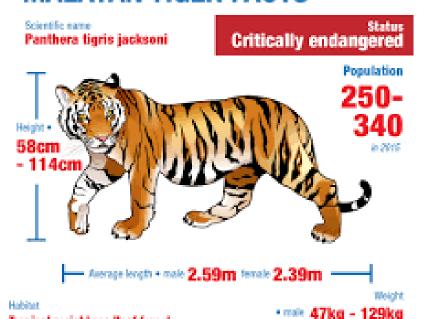


Do you know what is the national

animal of Malaysia?

#### What is the national animal of Malaysia?

#### MALAYAN TIGER FACTS





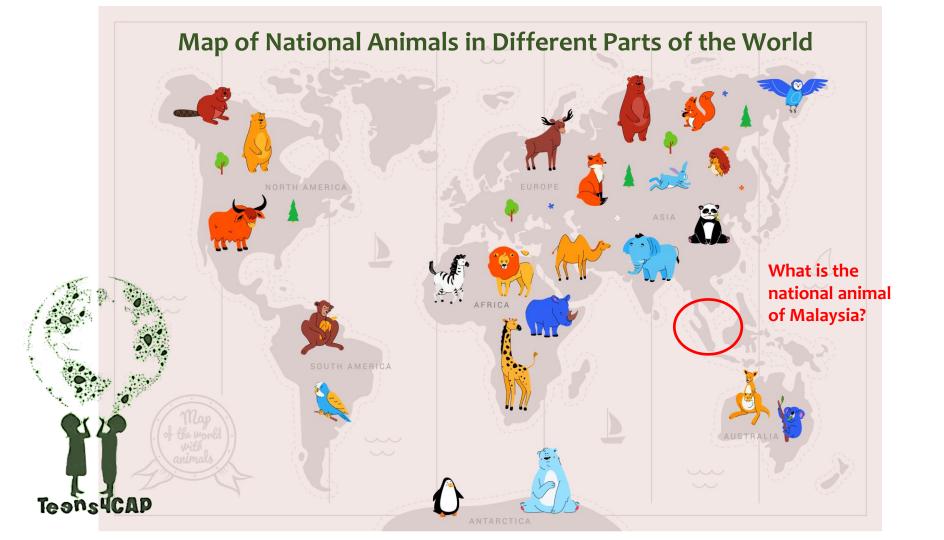
#### **National Emblem of Malaysia**



Tropical moist broadleaf forests

Found only to Peninsular Malaysia and the southern to of Dailand

tenale 24kg - 88kg



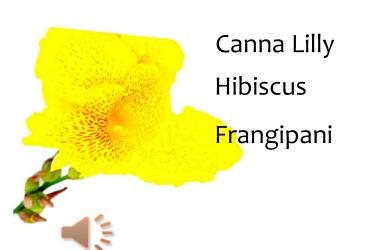
#### **ICE-BREAKER**

(Raise hand for the correct answer)



What flower is this?

What vegetable is this?





Amaranth Moringa Malabar

## **TOPIC 1: SOIL**

PLANTS AND PEOPLE NEED
NUTRITIONAL FOOD TO LIVE WELL
1A. FOOD AND PEOPLE
1B. FOOD FOR PLANTS

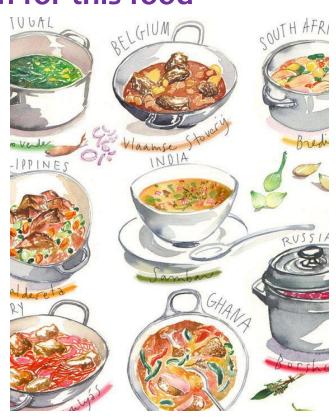


# Please tell us your name and your favourite food



Tell us the country of origin for this food





## Tell us the country where these dishes are most popular





Choose one
China
Myanmar
Malaysia
Italy
Afghanistan

# Tell us the country where these dishes are most popular











# Tell us the country where these dishes are most popular











### Tell us the country where these dishes are most popular









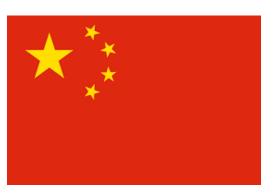
### Tell us the country where these dishes are most popular











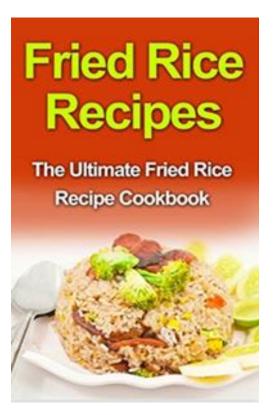
Homework – Select 2 countries and research on 2 fruit trees that can grow there (to share next week)



# Let's discuss on the ingredients and where we can get them from

- 1) Rice
- 2) Oil
- 3) Onion
- 4) Carrot
- 5) Anchovies
- 6) Peas
- 7) Egg





#### Let's talk about FOOD and HUMAN

# Where do the ingredients come from? RICE?

1) Rice from paddy – what does paddy need to grow well?



# Where do the ingredients come from? OIL?

1) Which cooking oil you normally used? What are they

made from?



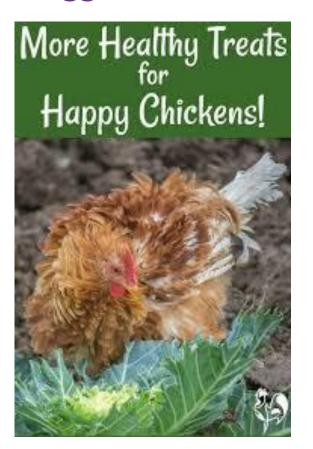






#### Let's talk about PLANTS and PEOPLE

# Eggs come from chicken. Where do chicken get their food from?











#### Let's talk about PLANTS and PEOPLE

# For Fried Rice - Where do these vegetables get their food from?



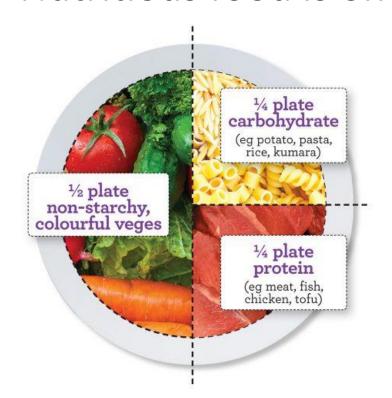








# What are in your plate? Do you always have a Healthy Plate? Nutritious food is one of the basic human needs.





# Nutritious food is a must for us to remain healthy





Indian Food

Japanese Food

# LET'S TALK ABOUT WHAT WE NEED TO LIVE OTHER THAN FOOD

# Basic needs for human to live





# WHICH ELEMENTS/ITEMS BELOW ARE NEEDED THE MOST BY PLANTS TO LIVE HEALTHILY? WHY?

















# Which plant needs more 'food' from the soil? Which plants need more water and sunshine?



Papaya



Water Spinach/ Kang Kong



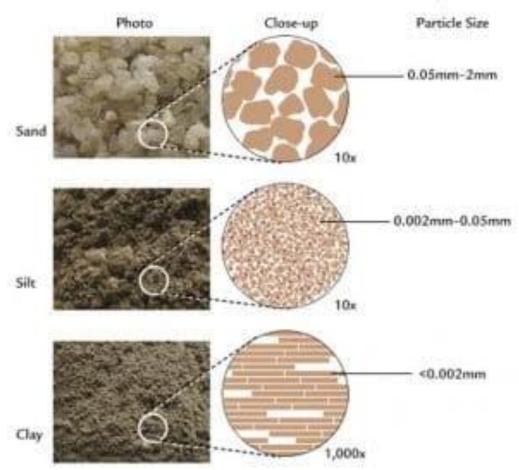
Chilli

### Let's talk about PLANTS and SOIL

Which soil has the most nutrients to feed the plants? Which one of these is the best soil for planting?



# Sand, Silt, and Clay



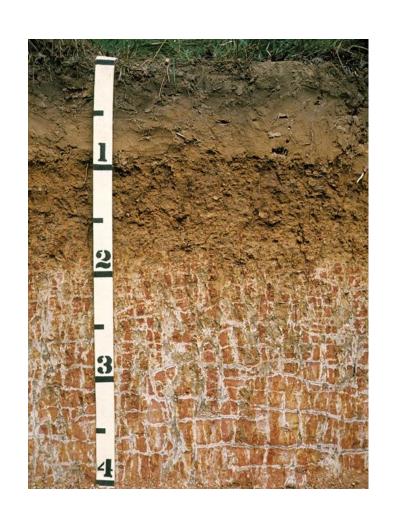


# How long does it take to produce 2-3 cm soil naturally?





WATCH: Introduction to Soil: https://www.youtube.com/watch?v=ayhA6g3hopo&t=39s



Let's discuss what we learned from the video.

(Group Breakout – 10 min)

Soil is made-up of multiple layers.

Which part of the soil layer do plants grow well?

# More pictures on different layers of soil. Describe on the look of each layer.





## Let's learn on soil layer ... Each person reads one description.

It has less organic Subsoil material and is also The topmost layer of soil lighter in colour. It is is thin and dark in colour. made of sand, silt and It has decaying leaves, **Humus** clay. living materials. **Parent Material** It is mostly rock that has been weathered. Big The second layer. It has a tree roots may grow to layer of decaying plants this point. and animal matter, lots **Topsoil** of minerals. It is dark in This is a solid rock layer colour. Most plant roots and make the bottom grow here. **Bedrock** most layer if soil.

# Draw lines to match the layers

# Under the ground

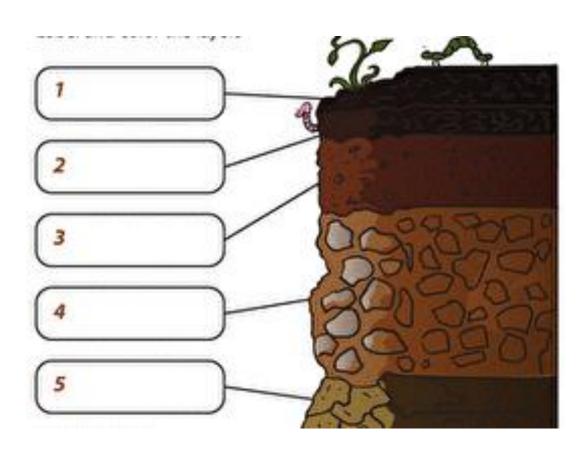
Bedrock

**Humus** 

**Parent Material** 

**Subsoil** 

**Topsoil** 



## Which living creatures make up soil community or soil biodiversity?

**DID YOU KNOW?** 



# Soil Community Or Soil Biodiversity

#### Above the ground (seen)

 Megafauna (toads, moles, beavers, rabbits, badgers, etc.)

### In the ground - beneath our feet (Seen and unseen)

Seen – earthworm, mites, ants Unseen – microorganism like bacteria, fungi, protozoa and fungi



Toad



Moles



## THE MEGAFAUNA TEAM Guess their names!

Moles, Beaver, Rabbit, Toad, Moles (Share their names in your language too)



Badger



Rabbit



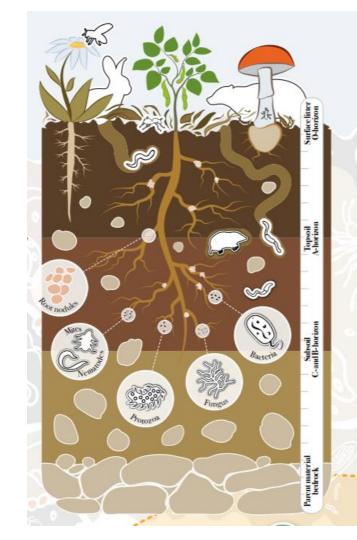
Beaver

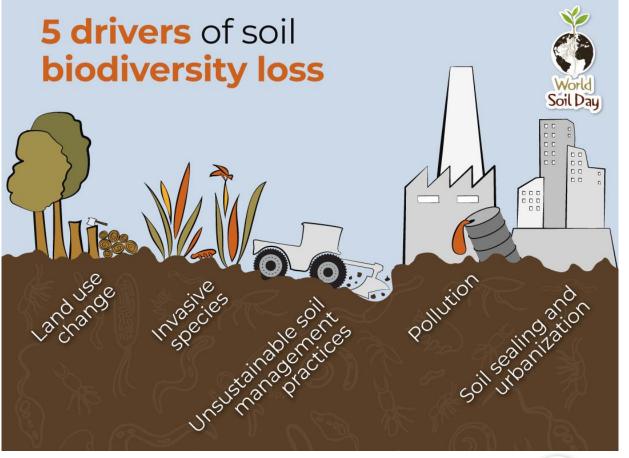
#### More information on soil

• Plants nurture the diverse living organisms in the soil, and the organisms keep the soil healthy and fertile.

• Soil is a home to more than one quarter (25%) of our planet's biodiversity.

 Soil organisms work together 365 days 7 days a week and 24 hours a day to sustain life our life and life on Earth.

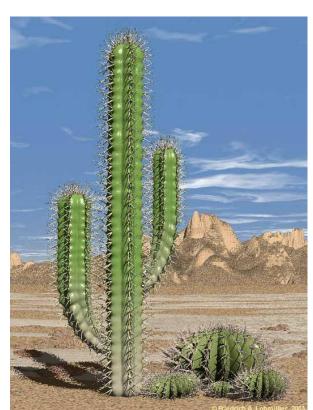






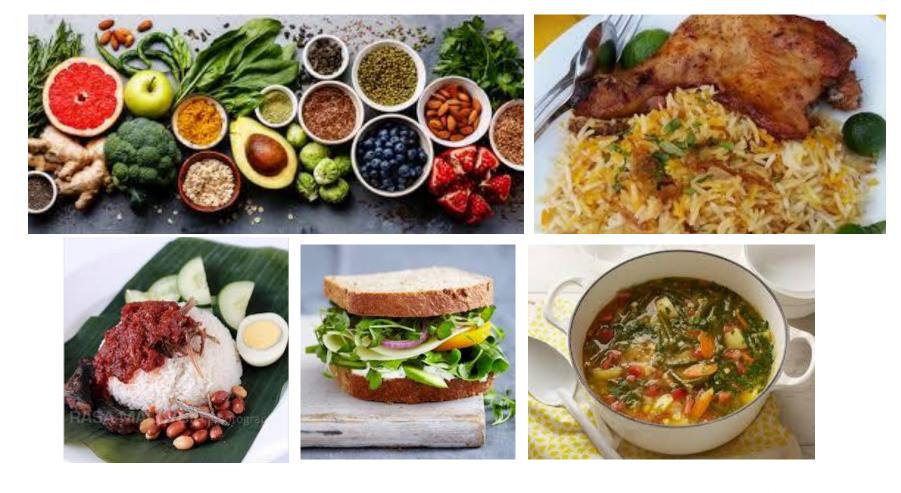


#### Plants living in different types of soil The nutrients in the soil feeds the plants









Healthy soil organism - Healthy soil - Healthy plants - Healthy food.

### SADLY, WHEN HUMAN AND PLANTS DO NOT GET ENOUGH NUTRITION.... THEY BECOME SICK...





## IDENTIFY YOUR SOIL TYPE

the jar test

- Fill a clear glass jar halfway with your soil sample.
- Fill the remaining half with water, leaving 1" of air.
- Attach lid, then shake the jar vigorously until you have broken up any clumps of soil.
- Set the jar aside to rest, undisturbed, overnight.

After 24 hours your jar's contents will have settled into distinct layers:

#### **HOMEWORK 2 – PRACTICAL**

Get a transparent drinking glass or a plastic bottle. Do the JAR TEST.

Suggest your soil mixture. Please upload the picture of your soil Jar Test and write about your soil mixture at Teen4CAP Facebook Group.

**Have Fun!** 



## HOMEWORK 3 – Watch this video. The link and the questions for online discussion is given at Teens4CAP Facebook. www.facebook.com/Teens4CAP



### TEENS4CAP SELF PACE REVISION ANY TIME ANY WHERE!

REVIEW ON EACH
LESSON
KAHOOT QUIZ
The link will be given at the end of each session.

**TOPIC 1: SOIL** 

**TOPIC 2: COMPOSTING** 

**TOPIC 3: PLANTING** 

**TOPIC 4: WATER & WATERING** 

**TOPIC 5: HARVESTING** 

#### SOIL:

https://create.kahoot.it/share/topic-1-soilteens4cap/034a6201-f5ca-4342-853b-d32a7b917f8d

#### **COMPOSTING:**

https://create.kahoot.it/share/topic-2-composting-teens4cap/b69b2f06-fef5-4e9c-97d3-368de19f6efb

PLANTING: https://create.kahoot.it/share/topic-3-planting-propagating-teens4cap/3foedeof-d528-4cae-b183-fbe6fo2ac276

#### **WATER & WATERING PLANTS:**

https://create.kahoot.it/share/topic-4-water-watering-plants-teens4cap/89866ef1-27aa-4f03-9fob-8301a14ca6e6

#### **HARVESTING:**

https://create.kahoot.it/share/topic-5-harvestingteens4cap/oc3ad5e6-76d9-4738-bbc5-e3173772059f

## SEE YOU NEXT WEEK! Thank you







**SDG Secretariat Office** 

Climate Action for Peace (CAP) was conceptualized by The Blue Ribbon (TBR) as part of its aspiration for global peace building. Through this initiative, Teens4CAP program was born. This Eco-Edible Gardening series is facilitated by the teens and young adults that TBR mentors.

Most of them are underprivileged youth – refugees, asylum seekers and stateless teens – that do not get access to formal education.