

LEARN AT CHESTERZOO

THE GREENGOLD GAME

TEACHER PROMPT CARDS

A PALM OIL FACTS

Ask each table to present their three facts about palm oil and their answer to the question.

Decide which table had the best three facts and award them \$300 orangutan dollars.

At the end, answer the question:

It's a trick question, all the products contain palm oil.

B COCONUT OIL OR PALM OIL

Ask each table to say whether they have chosen to grow coconut oil or palm oil.

Reflect on why a plantation farmer might be more likely to grow one oil than another.

Key learning: Palm oil uses less land so it is more appealing to plantation farmers.

Flora will ask you to hand out rewards. Tables get:

- \$100 if they chose coconut oil
- \$200 if they chose palm oil



LEARN AT CHESTER ZOO

C PLANTATION GAME: RULES

In **Round 1**: Give one game pack to each table.

Ask tables to place their cards on the game board with 'open' or 'forest' facing up. 'open' is empty land, 'forest' is rainforest.

Explain the rules. There are **2 choices**:

- You can choose to convert land into plantation, by turning 'open' and 'forest' cards over to 'planted'. Converting land costs \$100.
- You need to choose how much to pay your workers. You need to pay one worker for each piece of 'planted' land you have. Workers are happy if they are paid living wage. They are even happier if they are paid the most in their country. Living wage is \$200.

How to 'win' the Plantation Game can remain ambiguous. We'll discuss what it means to win later, so feel free to be vague, or answer questions about winning playfully.

Just in Round 2

ADD

If a country's government has decided to subsidise sustainable palm oil, plantations with an RSPO certificate get an extra \$100 for each piece of planted land.

In Rounds 2 & 3

ADD to choices

- Decide whether to use chemical fertilisers. The fertilisers will make crops grow faster, but they are bad for the environment.
- Decide whether to choose an event card. Event cards might bring good luck or bad. See additional materials to support the use of event cards, if needed.

In Round 3

ADD

If a plantation has an RSPO certificate, and is in a country which subsidised sustainable palm oil, then they should get an RSPO subsidy.

The subsidy is as follows:

- If **well over 50%** of the class gave money in The Big Choice Game: **\$200** per piece of planted land
- If **50%** of the class gave money in The Big Choice Game: **\$100** per piece of planted land
- If under **50%** of the class gave money in The Big Choice Game: **\$0** per piece of planted land

If a country's government has banned deforestation, then plantations in that country are unable to 'plant' forest.

D PLANTATION GAME: PLAYTHROUGH

The Plantation Game consists of a round of payments, followed by a round of earnings.

In Round 1:

Payments

Government Ministers should collect payments from plantations in their country:

- Plantations need to pay \$100 for each piece of land they decide to 'plant'.
- Plantations need to pay workers wages. Wages need to be paid once for each piece of land planted.

Dice Bonuses

Government Ministers should mark any dice bonuses onto the game board:

- + 1 if the plantation paid their workers minimum wage
- + 2 if the plantation paid their workers the most in their country

Earnings

Government Ministers calculate earnings.

To do this: Roll 2 dice, add the numbers together and add any dice bonuses.

- Total Dice Score < 4: No money - no harvest
- 5 < Total Dice Score < 11: \$400 - an average harvest
- Total Dice Score > 12: \$600 - a bumper harvest
- Calculate earnings once for each piece of 'planted' land and pay out the earnings.

In Round 2 & 3:

For Payments ADD

Plantations need to pay to use chemical fertilisers. Chemical Fertilisers cost \$100 for each piece of land planted.

For Dice Bonuses ADD

+ 4 if they used chemical fertiliser

Ask each plantation if they'd like to **choose an event card**.

If they do, then stay with the plantation to host any discussion required, or gather extra payments. Adjust dice bonuses accordingly.

If a country with an RSPO certificate chooses to:

use chemical fertiliser or *'plant' forest* or *pay their workers below \$200*

Remove their certificate

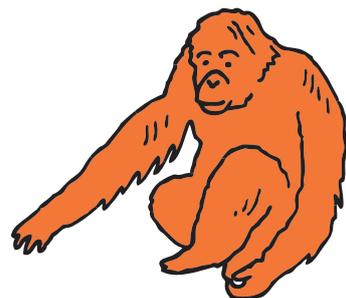
In Round 3

For Earnings

If orangutans are in the game:

Add an orangutan to a plantation if:

- they have 2+ forest cards
- the other plantations in their country have 1+ forest cards.



LEARN AT CHESTER ZOO

E STRATEGY

Give out RSPO certificates to any plantations who grew palm oil sustainably.

This means they:

- Didn't 'plant' any forest
- Paid their workers living wage or more (\$200+).

Facilitate a short conversation about strategy. Ask the group what they think of the two strategies:

- Get rich quick
- Grow sustainably

And which they think they will follow.

Remind them they are playing as plantations.

Try not to let the group settle on how they think they *should* play.



F TIME MACHINE

If a table wants to 'turn back time' to become a sustainable plantation they can do so:

- They must pay you \$100.
- On their game board, swap any planted 'forest' cards for any unplanted 'open' cards.
- If they planted more than 2 cards, turn over any remaining planted forest cards. They are able to keep their earnings from the previous round.
- Give them an RSPO certificate.

G GOVERNMENT GAME ROUND 1

Ask governments to hold up their 'AYE/NAY' cards at the same time.

Calculate their scores:

If only one government voted NAY:

- The government who voted NAY gets: - 2 points
- The governments who voted AYE get: + 2 points

Otherwise:

- If a government voted NAY, they get: + 3 points
- If a government voted AYE, they get: + 1 points

Note which countries have chosen to subsidise growing sustainable palm oil.

LEARN AT CHESTERZOO

H THE BIG CHOICE GAME

Make sure each Plantation Farmer has \$100 in their hand, taken from their own plantation's funds.

Rules:

- Each Plantation Farmer can choose to put their \$100 in the air, or not.
- If they put their hand up their money will be taken.
- If they keep their hand down they get to keep the money for their plantation.

Ask the class to close their eyes and choose what to do.

Ask the Government Ministers to collect in all the money in the air.

Count up the number of \$100s, and work out if it is more than half the class.

Add a point in the government game to the country who gave the most.

I GOVERNMENT GAME: ROUND 2

Ask governments to hold up their AYE/NAY card at the same time.

Calculate each government's score:

If only one government voted NAY:

- The government who voted NAY gets: - 5 points
- The governments who voted AYE get: + 3 points

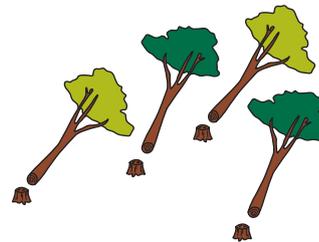
In any other scenario:

If a government voted NAY, they get: + 6 points

If a government voted AYE, they get: + 2 points

Mark the countries which have banned deforestation.

Announce the winner of the government game and award the prize, if you want.



LEARN AT CHESTER ZOO

J WHO HAS WON?

Ask each plantation to present:

- their earnings,
- whether they have an RSPO certificate,
- whether they have an orangutan (if possible).



Ask the plantations questions about their strategy:

- Was any table was aiming to get rich quick?
- Were they aiming to be sustainable?
- Ask them to reflect on how successful they were, how well did their strategy work?

Announce the winner.

There will either be one winner or two winners.

If the plantation with the most money also has an RSPO certificate and an orangutan (if possible) they are the **one winner**.

If the plantation with the most money does not have an RSPO certificate there are

two winners:

- the plantation with the most money,
- the plantation who earned the most money sustainably (has an RSPO certificate and an orangutan).

K WHO HAS REALLY WON?

Reflect with the class on the winner(s)

If there is one winner, reflect on how realistic this is.

Do we think the sustainable farmers would end up with the most money?

What would happen in reality?

If there are two winners, reflect with the class on who they think the real winner should be – the plantation with the most money? or the one who was sustainable?

Give the class the chance to vote on who they think the real winner should be.

Tables and Governments should each get a vote.

L REFLECTION QUESTION 1

Reflect with the class on the game.

Discuss Flora's question:

What was the best choice you made in the game, where you played well; as plantation farmers or governments or as yourselves making the big choice to spend?

Is your best choice one you agree with?

L REFLECTION QUESTION 2

Reflect with the class on the game.

Discuss Flora's question:

What are the best choices you can make for yourselves, in the real world, to influence the real-life plantation farmers and governments, so they help support the orangutans?

Key learnings:

- The big choice game is the game we play every day, where we make choices as consumers about where we spend our money. Encourage the class to consider the power & impact of these choices. How might they be able to make choices in their own lives to influence the system and encourage the growth of sustainable palm oil?
- Governments have lots of power to impact the choices that Plantations make, by banning deforestation or subsidising sustainable palm oil. How can we impact our Governments? Perhaps get the class to reflect on the role of lobbying as a tool to let Governments know what you think, and encourage them to act sustainably.