

Comparing and Contrasting a Sustainable and Unsustainable Oil Palm Plantation

LEARN AT **CHESTER ZOO**



Who is causing the most change
in the rainforest?



ORANGUTAN



HORNBILL



TIGER



HUMANS

L.O.: To compare and contrast a sustainable and unsustainable oil palm plantation

Success Criteria:

I can:

- Understand the differences between sustainable palm oil and unsustainable palm oil.
- Recognise features on plantation images that are sustainable and unsustainable.
- Annotate images to give reasons for my choices.



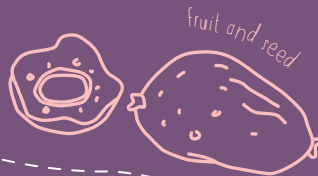
What have you found out about the
palm oil industry?

What is palm oil?

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ZOO

what is PALM OIL?

Palm oil comes from the
FRUIT AND SEED of the
oil palm plant, native
to *West Africa*



Palm oil is the WORLD'S MOST
commonly used *vegetable oil*

PALM OIL can
be found in over **50%**
of products on supermarket
shelves

85% of PALM OIL
is grown in
Indonesia and **Malaysia**

SUSTAINABLE
PALM OIL
CHALLENGE

Join Chester Zoo's **#PalmOilChallenge** – find out more and how you can
get involved, here: **CHESTERZOO.ORG/PALMOIL**

Why is palm oil produced?

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What's **GOOD...** about **PALM OIL?**

Growing oil palm trees is the most **efficient use of land** for producing oil - it produces **twice as much** as coconut trees and over *thirty times* as much maize.

It can be **ENVIRONMENTALLY FRIENDLY** if it is *grown sustainably!*

It's **VERSATILE, CHEAP and EFFICIENT!**

It's an **IMPORTANT PART OF THE ECONOMY** in countries such as **Indonesia** and **Malaysia**.

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SUSTAINABLE PALM OIL CHALLENGE

Why do some people want to stop palm oil from being produced?

CHESTER ZOO What's **BAD** about palm oil?

Vast areas of rainforest - once home to *orangutans, tigers, elephants* and *rhinos* - have been cleared to make way **FOR OIL PALM TREES**.

*Oil palm plantations cannot sustain the native wildlife - as a result, **ANIMAL NUMBERS** are falling fast.*

DEMAND IS INCREASING and the industry is growing and spreading to other countries - including the *Philippines, Nigeria* and those in *South America*.

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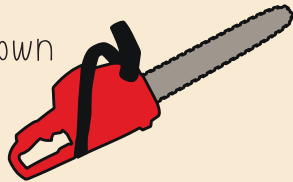
SUSTAINABLE PALM OIL CHALLENGE



What is sustainable palm oil?

Sustainably produced palm oil **MUST** meet certain criteria

Primary rainforests aren't cut down for new plantations

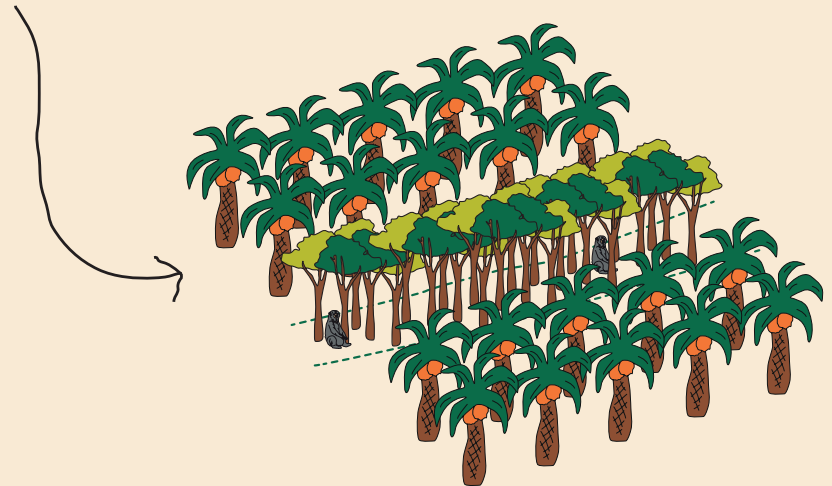


Plantation owners follow best practice to make the plantation efficient and reduce the impact on the environment.

Workers are cared for and given proper wages and rights.



Wild life corridors are kept to connect fragmented species.



What can we learn from past production of palm oil?

What can other areas of the world learn from the South-East Asia palm oil industry?

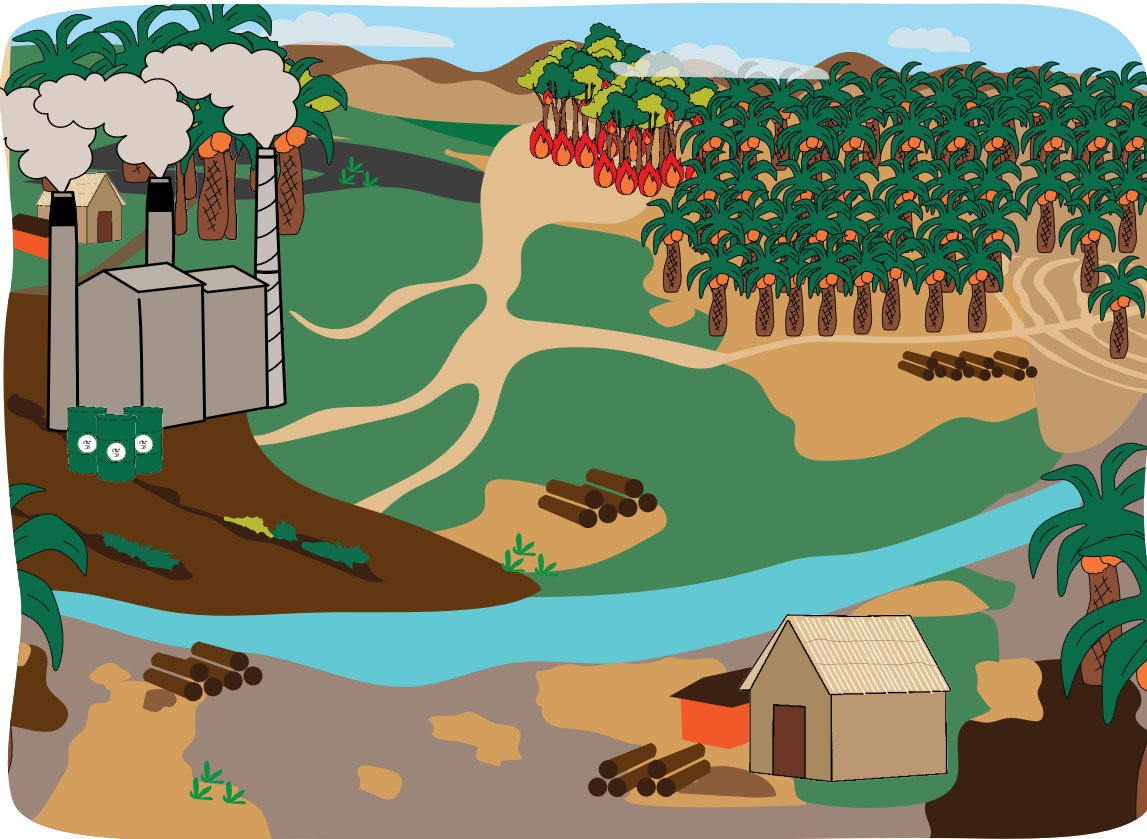
The rapid growth led to huge **deforestation** that has:

- disrupted the communities
- decreased the plant and animal wildlife and the biodiversity (number of different species). **85% of all plantations occur in this region.**
- Increased carbon dioxide causing global warming
- Reduced the amount of oxygen released (*since there are fewer trees*)

Recent restrictions in South-East Asia have led to an increase in plantations elsewhere, such as Latin America (areas of central and south America). Have these areas learned from South-East Asia?

Although some areas, e.g. Ecuador have so far generally produced palm oil sustainably, other areas such as Peru have not achieved this so well. It is important that sustainable palm oil is encouraged!

Is this plantation sustainable or unsustainable? Why?



- List reasons for your choice on whiteboards or label and annotate this picture on the worksheet: 'Identifying sustainable and unsustainable oil palm plantations 1'.

All children are to label the features of a sustainable/ unsustainable oil palm plantation around this picture on your worksheet.

/ Include some annotations to explain labels further.

***Look back at previous work to add to annotations, where possible.

Is this plantation sustainable or unsustainable? Why?



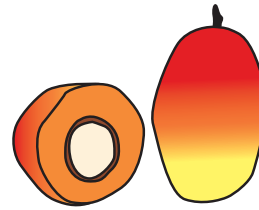
- List reasons for your choice on whiteboards or annotate a copy of this slide.

All children are to label the features of a sustainable/ unsustainable oil palm plantation around this picture on your worksheet.

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Discuss your reasons



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Plenary

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I can:

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