



Lesson: Repeated percentage change - farming in the climate crisis



ACTIVITY OUTLINE



Students begin with a starter matching calculations to a variety of percentage decrease situations.

They go on to an introduction to repeated percentage change and how to use powers in this context. They complete a worksheet using the formulae and interpreting different parts of the formula, finding initial values and the percentage of the decrease. The context for these calculations is farmers experiencing change to their crop yields because of the effects of climate change.

As a plenary, they consider whether a maximum, minimum or median value is most useful in context and finally look at an exam style question asking which investment will offer better long term gains given the changes that climate change is forecasted to bring.



CURRICULUM OUTCOMES



Students will:

Revise the use of multipliers for percentage decrease

Create and use formulae for repeated percentage change situations

Consider the meanings of different summary statistics in context



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GLOBAL LEARNING OUTCOMES



CLIMATE ACTION



Students can name some different consequences of climate change and how these affect people and plants

SMSC/ British Values - Understanding of the consequences of our behaviour and actions

Action



Choose climate-smart chocolate, coffee, fruit etc.

Look for the Rainforest Alliance Certification on products you buy. The Rainforest Alliance works with small producers all over the world to build their resilience to the effects of climate change, both now and in the future.



The climate-smart farming the Rainforest Alliance encourages aims to:

- Improve farmer productivity, and as a result, livelihoods
- Make farms more resilient to climate impacts they're facing now, and to those likely to hit in the future
- Where feasible, curb greenhouse gas emissions associated with growing food.

Find out more at <https://www.rainforest-alliance.org/>



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