

TOPIC

Shape Space Measures: Area

LESSON TIME: 0950 - 1050

YEAR 7 set 2

AIM

To promote awareness of Fairtrade and Fairtrade products and to engage students in challenging the unfairness of world trade and supporting justice for the world's poorest producers

OBJECTIVES

By the end of the lesson(s)

*Students will:**Be able to measure lengths of a rectangle to achieve a desired area**Be able to calculate the area and perimeter of a rectangle**Have demonstrated the unfairness of trading relationships and inequality between rich and poor countries**Have shown how countries are often forced to damage their environments in order to engage in trade**To understand that choices can be made from personal choices to local and global choices and recognise such choices have consequences*

RESOURCES

Paper, rulers, pencils, sheets of scrap paper (A5)

LESSON STRUCTURE : starter/main/plenary

Starter

- Learning objectives shared with pupils. Split the class up into small groups
- Students to recap work on areas of rectangles and begin to solve problems when the area is known but lengths are not

Main

- Introduce the fair-trade game and the resources. Be aware that each group has a different number of resources. Only one runner per team. Played for at least 20 mins. Each table they draw must have the perimeter written inside and the lengths written on. Accurate drawings of tables will be accepted by the 'world bank' (me).

Plenary

- * Review thinking and learning skills used in the lesson.

Maths:

- Each team to report on any strategies they adopted to engage in the game, the different tables of 24cm² they discovered and did they do badly or well?
- Which rectangle had the longest/shortest perimeter? Any relationship between the two?
- What formula can we use to find the perimeter of a rectangle?

Global:

- Which country do they think they represented and why?
- Was it a fair game? Why or why not? Could we make it fairer?
- Who do they think was the winning team? Why? How differently would the game have been played if the winner was the one with the most logs/trees at the end?