

Dr Fog Presents

Examining statistics

Year 6 (National Numeracy Strategy)
(Based on DFEE Sample Lessons)



Resources

- Calculators
- [Worksheet](#)



Mental Learning Objective

- Identify and use appropriate operations to solve word problems.



Mental Learning Task

- Children are to work in pairs.
- One child in each pair is given a calculator.
- So the class now consists of two teams...



Mental Learning Task

Team 1:-

Calculators

Team 2:-

The Minds



Mental Learning Task

- Call out some mental arithmetic problems, using all four rules, and tell everyone to work them out.
- Mentally if they are a 'Mind'
- On a calculator if they are a 'Calculator'
- Hand up when you have a solution.



Mental Learning Task

- Choose one pair and establish which one of them put their hand up first.
- Then check they both have the same, correct answer.
- Whichever child puts their hand up first wins a point for their team.



Mental Learning Task

- After a while - give the calculators to your partner.
- Play again.
- Which team wins this time?



Mental Learning Objective

- Identify and use appropriate operations to solve word problems.



Main Learning Objective

- Explain methods and reasoning orally and in writing.



Key idea

**I can clearly present
information and solve
problems appropriately.**



Main Learning Task

- Soon you will moving to secondary school.
- Today we will look at a schools statistics.



Main Learning Task

- Handout a copy of the worksheet.
- What can you deduce or work out from this information?
- Deducing means making deductions.



Main Learning Task

- How would we answer each of these questions?
- How many pupils are there altogether?
- The ratio of boys to girls?
- The class size we can expect each year.
- How many lessons each class has a week?
- How many lessons are there for each subject?
- How many teachers will we have each year?
- What our timetable will look like?
- What the budget is spent on?

Main Learning Task

- Now you are going to do some of your own deductions.
- Find out the answers to some of the questions posed by the class.



Main Learning Task

- Simplification: -
- Answer these questions.
- How many pupils are in each year?
- How many pupils in the whole school?
- Are there more girls than boys in the school?
- Are there more girls than boys in each year?



Main Learning Task

- Challenge:-
- Solve these problems.
- In year 7 students take 14 subjects but don't have the same number of lessons of each.
- They have 4 lessons a week in each of Mathematics, English and Science.
- Suggest a timetable so that in the 30 periods all the subjects have at least one lesson a week.
- Find the ratio of boys to girls in each year.



Main Learning Objective

- Explain methods and reasoning orally and in writing.



Plenary

- Has anyone finished their task?
- What did you find out?
- How could you present this information for others to use and read?



Review of Key Idea

- I can clearly present information and solve problems appropriately.
- Did you learn this in today's lesson?



Worksheet

Blaise Secondary School

Year Group	Number of boys	Number of girls	Number of periods taught per week
Year 7	101	107	249
Year 8	99	96	254
Year 9	78	76	250
Year 10	81	83	219
Year 11	90	97	220
Year 12	67	58	257

• Key Stage 3 students have 14 subjects: English, Mathematics, Science, Technology, History, Geography, Religious Education, Art, Drama, Music, French, German, PE, and PSHE (Personal and social education).

- No class has more than 30 pupils.
- There are 30 periods a week.
- There are 62 members of staff.
- The total budget for the school is £2 374 240.
- Year 7 pupils come from 5 different primary schools.

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