

Lesson Four

Theme

Classroom Census

<u>Objectives</u>

That the child will be enabled to:

- recall the data collection cycle
- engage in the data collection process
- learn how to collect and record data
- represent data collected in graphical form
- learn how to analyse and question data
- make simple generalisations based on data
- decide how census data can be used for planning

Follow-Up Activities

- 'Census Cycle'
- Classroom Census Recording sheet
- Analyse your Data
- Census Quiz

Key Messages

- Data can be collected and analysed with a view to planning at local level – even within the classroom.
- By collecting data from an entire population, we can make decisions that take everybody's interests into account.
- The census provides the information with which we can build our future

Integration/Linkage

- Maths: Data Representation and Interpretation
- English: Oral Language / Language Development
- **SESE**: History Change and Continuity

Teacher's Notes

Talk and Discussion

- Revise the key learning points from Lessons One, Two and Three.
- Revise the data collection cycle a blank 'Census Cycle' activity sheet could be distributed to children to work on in groups.
- Elicit from the children what data we could collect within the classroom to help with organisation and planning.
- Show the children a sample census table on the blackboard or on the overhead projector e.g.

Name	Age	Shoe size	Owns Bicycle	Owns a pet

- Ask the children to give you three fictional names and enter these names in the boxes provided.
- Point to each column title in turn and ask the children what question would need to be asked in order to get the correct information - How old are you? What is your shoe size? Do you own a bicycle? Do you own a pet?
- Model for the children how the data is to be entered in the census table numbers to be entered in the Age and Shoe Size column; a tick for a 'Yes' answer and an X for a 'No' answer.
- Distribute the activity sheets entitled 'Classroom Census' to the children.
- Ask the children to enter the names of their classmates in the 'Names' column. If you
 have access to a word processor you could have this done beforehand.
- The children will then need to write out the questions they will need to ask.
- Allow the children to collect the data and as they do so, check that they are recording their results clearly.
- When data has been collected, distribute the activity sheets 'Analyse your Data' and encourage the children to discuss each question and record their results.
- A whole class discussion could follow with each group reporting back on their findings

Follow-Up

The children could devise their own census to find out other information in the classroom or in the school. Discuss who might use the results, when they might be used and why. Are there any questions that people might not like to answer?



Classroom Census

Name	Male	Female	Age	Birth	Has	Has	Distance	Walk	Live in	Live in
				Month	Brothers	Sisters	from	to	Country	Housing
							School	School		Estate
	ļ									
	ļ									

- * Enter the names of your classmates in the above table.
- * Decide on the questions you must ask to get the information you need e.g. How old are you?
- * Ask each person to answer your questions enter the answer opposite the respondent's name.
- * If the answer is 'Yes', put a tick in the box.
- * If the answer is 'No', put an X in the box.
- * Some of the questions will require you to put the answer in the box.
- * Calculate the total of each column.

Analyse your Data

Use your data to answer these questions:

- * How many people have you collected data on?
- * How many people have brothers?
- * Write the number of people who have sisters as a fraction of the whole class?
- * How would you calculate the average age of your respondents?
- * What is the longest distance a child has to travel to school?
- * What is the shortest distance a child has to travel to school?

Use your data to enter children's names in the Carroll Diagram:

	Has Sisters	Has Brothers
Male		
Female		

Data Representation

Data collected can also be represented in a graph or diagram. It is important to organise your data first.

Let's arrange the data collected in the 'Birth Month' column:

- * Enter the months of the year in the month column of the Birthday Recording sheet
- * Tally the number of birthdays in January draw a stroke for each one.
- * Group the strokes together in fives.
- * Do the same for February, March, April...
- * When completed, calculate the total for each month and write the number in the total column.
- * Using your results, make a bar chart.
- * Put the month names on the horizontal axis and the numbers on the vertical axis.

Vertical Bar Chart





Birthday Recording Chart

Month	Tally	Total

How many children have birthdays in:

- * Spring
- * Summer
- * Autumn
- * Winter?

Which month has the greatest number of birthdays?

Which month has the least number of birthdays?

Design a recording sheet to help you organise your data on children's ages.

Census Quiz

Round 1

- 1. What is a population count called?
- 2. In what season will this year's census be held?
- 3. In what year was the last census conducted?
- 4. At present, how often is the census held?
- 5. Who delivers the census forms?
- 6. What organisation is responsible for conducting the census?
- 7. What is the abbreviation for this organisation?
- 8. When will census forms be delivered?
- 9. In what month will the census be held this year?
- 10. When was the first census held in Ireland

Round 2

- 1. For what reason was the census postponed last year?
- 2. From the first census in 1841 to the year 1911, how often was the census held in Ireland
- 3. When will the census forms be collected?
- 4. On what date will the census be conducted?
- 5. Who should be covered in the census?
- 6. Is it compulsory to complete the census form? Yes or No
- 7. How many pages on the census form?
- 8. When should the next census be conducted?
- 9. Write the website address for the Central Statistics Office?
- 10. In what year was the census pilot test carried out?

	Round	3
	1.	On what day
	2.	For how many
2		cater?
•	3.	When will the
	4.	What special
		are visually ir
	5.	In what year
2	6.	Census 2002
•		millennium. H
	7.	How many let
	8.	What colour
•	9.	Who must co
2	10.	What arrange
•		familiar with
	Round	4
	1.	There are a r
		Can you list t
2	2.	Why is the c
•	3.	How many ma
	4.	Approximate
		conduct the a
	5.	What arrange
2		have more th
ě	6.	What is likely
		census form?
	7.	How will the
	8.	The year 200
2		kind of numb
ě	9.	Conducting a
		of the costs
	10.	In 1976, the
-		 .

of the week will the census be conducted?

- y persons in each household does the census form
- e results of the survey be published?
- arrangements have been put in place for those who npaired?
- was the census cancelled?
- is the first census to be conducted in this low many years in a millennium?
- tters in the word enumerator?
- pen should you use to complete the form?
- mplete the census form?
- ements have been put in place for those who are not Irish / English?
- number of new questions on this year's census form. hree of areas they address?
- ensus conducted?
- onths have 28 days?
- ly how many field staff have been recruited to census?
- ements have been put in place for households that an 6 persons on Census night?
- y to happen to those who put false information on the
- census information be processed?

? ? ? ? ? ?

- 02 reads the same forwards and backwards. What er is this?
- census in a country is very costly. Can you list three that the CSO will meet?
- census was cancelled due to budgetary cutbacks. Then next census was held in 1979. How many guestions were on the 1979 census form?

?	Quiz Answers	?
?	Round 1 1. Census 2. Spring	?
?	3. 1996 4. Every five years 5. Census enumerator	?
?	 6. Central Statistics Office 7. CSO 8. Four weeks before census day 	?
?	9. April 10. 1841	?
?	Round 2 1. Foot and Mouth Disease	?
?	 Every ten years In the four weeks after census day April 28th 2002 Every ten years 	?
?	 Everyone who spends census hight in the country Yes 24 2001 	?
?	8. 2006 9. www.cso.ie 10. 1999	?
?	Round 3 1. Sunday	?
?	2. 6 3. Three months from census day 4. Forms with large print / Questions on Audiotape / Braille	?
?	5. 1976 6. 1000 7. 10	?
?	 Black / Blue Three answers - accept one or all (Householder or adult present on census night / Person in charge of communal 	?
?	establishment e.g. hospital, hotel / Person in charge of any vessel in Irish territorial waters on census night) 10. Census form has been translated into many other languages	?

Round 4

- PC Ownership / Access to Internet / Nationality / Membership of Irish Traveller Community / Disability / Time of leaving for work, school, college... / Third level qualifications held / Providing regular unpaid help for another / Labour market participation
- The census in conducted to provide facts and figures needed by the country to study the economic and social conditions of the country (teachers can decide on answers that may / may not be accepted for this question)
- 3. All months have 28 days (trick question!!)
- 4. Approximately 4,400 temporary field staff
- 5. A continuation booklet can be used with the census form
- 6. Persons providing false information may be subject to a fine of up to 25,000 euro.
- 7. The information will be scanned into a computer.
- 8. Palindrome
- Recruiting and training staff / Transport costs / Administrations costs /Technology / Publishing results...
- 10.6