

Activity Title:

1d - Age-sex pyramid

(Parts of this activity were adapted from Cubitt, Irvine and Dow, *Top Tools for Social Science Teachers*, 2000)

Learning outcome(s):

- Investigate the age-sex structure in the western Bay of Plenty sub-region.

Key words:

Population; age-sex pyramid

Materials:

- 1d Age-sex structure PowerPoint slides
- T chart example (following page)
- PowerPoint projector, computer, screen
- Paper and pens

Approximate time required:

Activities are broken into 20 minute segments. Each numbered activity below takes approximately 20 minutes. To complete both parts of the T Chart activity you will need around 40 minutes.

Suggested prior learning:

- 1a Western Bay of Plenty sub-region – Population change over time
- 1c Population distribution and density

Possible learning activities:

NOTE: Review the PowerPoint slides before showing them to students.

PowerPoint and discussion

1. Review the PowerPoint slides before showing them to students. Show the PowerPoint and work through the discussion questions and activities described in the slides. Break into groups and complete the activity on slide 10 of the PowerPoint. Share and discuss the answers from each group for this activity as a class.

Reading and quiz

2. Review the PowerPoint slides before showing them to students. Show the PowerPoint and then read pages 156 to 160 Justin Peat and John Lockyer *Geography on the Edge* (2010). Answer the quiz questions on the final slide of the PowerPoint.

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Curriculum Level:
Level 5 / 6 / 7 / 8

Curriculum Links:

Social Science Achievement objectives
5.4 Understand that people move between places and how this has consequences for the people and the places.
7.1 Understand how the processes that shape natural and cultural environments change over time, vary in scale and from place to place, and create spatial patterns.

Curriculum:

Key competencies:

Thinking

Principles:

Future focussed

Values:

Innovation, inquiry and curiosity

Geographic Key Concepts:

Change patterns

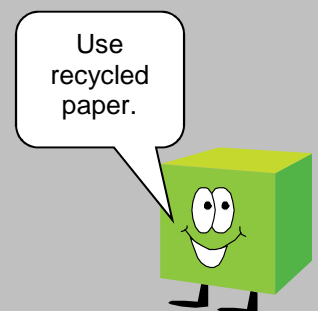
Geographic skills:

Graph Interpretation

Assessment opportunities:

Geography Achievement Standards: 1.2, 2.2, 3.2, 1.6, 2.6, 3.6, 2.5, 3.5

Sustainability tip!



T-Chart activity

3. *(This activity was adapted from one developed by Cubitt, Irvine and Dow, Top Tools for Social Science Teachers, 2000).* Divide into two groups; send one group to the front of the room the other to the back. For each group, tack four sheets of A3 paper to the wall so students in the group can see them. On each sheet write a heading; Social, Economic, Physical/Environmental and Cultural. An example of how the resulting T-chart could look is provided on the following page. Have one group discuss the impact of having a high population of people in their 40s in the region; direct the other group to discuss the impact of having a low population of people between the ages of 18 and 24 in the region. (The answers will be similar). Record ideas under the appropriate headings.
4. To conclude have the group present their key findings to the other group. Discuss how local government can plan towards accomodating the needs of the population structure in the region.

Additional resources / activities:

- For a more in-depth study on age-sex pyramids and how the structure of the New Zealand population has changed over time, download the moving age-sex pyramids Excel spreadsheet file (see PDF files).
- See also Age and Sex data using the Department of Statistics Table Builder Tool at http://www.stats.govt.nz/tools_and_services/tools/TableBuilder.aspx
- Quick and helpful Table Builder tutorials are available at http://www.stats.govt.nz/tools_and_services/tools/tablebuilder/help.aspx

Follow-on activities (found elsewhere in this resource):

- 1e Growth drivers and population migration
- 1f Economics of (Smart)Growth
- 4b Planning for population aging