

Activity Title:

2j – Understanding patterns of urban sprawl in the western Bay of Plenty sub-region

(This activity was adapted from ideas generously gifted by the geography teachers from Otumoetai College and Tauranga Girls College)

Learning outcome(s):

- Demonstrate a geographic understanding of urban sprawl in the western Bay of Plenty sub-region.

Key words:

Urban pattern; urban sprawl; growth

Materials:

- Internet access for Mapi
- Pens and printing paper or OHPs

Approximate time required:

Activities are broken into 20 minute segments. Each numbered activity below takes approximately 20 minutes. Completing all the activities in this topic will take up to 40 minutes.

Suggested prior learning:

2b Previous knowledge brainstorm

6b Survey and compare transportation to two local retail development areas

Possible learning activities:

Understanding where the growth has taken place?

- Use one of the following methods to create a visual picture illustrating the spatial and temporal variation in the pattern of growth for urban sprawl in the western Bay of Plenty subregion.
 1. Visit the Tauranga City Council website and search for **Mapi** or click on the following link: <http://www.tauranga.govt.nz/council-a-z/maps.aspx>. Click on the text "Access the online mapping system". This will take you to into the Mapi tool. In the top toolbar that runs along the **Main** webpage, select **Road Search** and enter a street such as **Pāpāmoa Beach Road, Pāpāmoa Beach, Pyes Pā Road, Tauranga or Bethlehem Road, Bethlehem**. Viewing the **2011, 2007 and 2003 Aerials** (on top toolbar), select an area and **Zoom** in to a map scale (see top toolbar) of about 1:16,000, about 500m (see bottom left of map). Use the Windows snip-it tool, or MAC screen shot tool to copy and

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Curriculum Level:

Level 6 / 7 / 8

Curriculum Links:

Social Science Achievement objective

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:

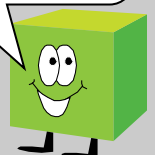
Map construction Photo interpretation

Assessment opportunities:

Geography Achievement Standards: 2.2, 2.3, 1.6, 2.6, 3.6, 2.5 & 3.5

Sustainability tip!

Save and re-use OHTs from this activity



print this photo (onto paper or an OHP). In the drop down box ('I want to') on the upper left-hand side of the image, select **Add Map Layer**, and then choose Aerials for two other time periods such as **Aerials 1977 and 1992** (and follow the directions to allow it to add this Aerial to the map) and view the development at this time. Print these photos also. Use coloured pens to draw around development boundaries and compare. Note: You can select the **City Plan** view (on top toolbar) and then in the bottom left-hand column, select **Map Layers** and **Show Legend**. This will show you the different zones – such as Commercial, Open Space, City Living etc.

2. Use the Mapi tool as described above and transcribe the boundaries of growth on the précis map provided.

Understanding factors that contribute to growth?

- Property Values and Sales: Visit the following website: <http://www.landlords.co.nz/housing-statistics/> to bring up a web page with a tool to 'Compare rental statistics or house sale prices'. Select sales graphs. And then the area you wish to compare (e.g. Tauranga or Mount Maunganui/ Pāpāmoa). Select the style of graph you wish to view. Then click show graph. This tool has the capacity to demonstrate variation in total house sales and property values from 1994 until 2011. Discuss how property values and sales can contribute to spatial and temporal variation in urban sprawl
- Use the Mapi tool to view recent property sales and values.

Additional resources / activities:

- To explore other factors contributing to urban sprawl in the western Bay of Plenty subregion visit the following useful websites:
 - Priority One (Driving Economic Growth in the Bay of Plenty) at <http://www.priorityone.co.nz/>
 - Tourism Bay of Plenty at <http://www.bayofplentynz.com/>
 - Education Tauranga at <http://www.educationtauranga.co.nz/>

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

- 4a How natural and cultural geography inform our planning for growth.