

**Activity Title:**

# 3a - Aerial photo identification game

**Learning outcome(s):**

- Identify key natural and cultural features using an aerial map.

**Key words:**

Aerial photograph; mapping; physical and cultural features

**Materials:**

- Copies of the aerial photo worksheet
- Computers (one per group)
- Internet access

**Approximate time required:**

Activities are broken into 20 minute segments. Each numbered activity below takes approximately 20 minutes. The total activity will take approximately 30-40 minutes.

**Suggested prior learning:**

1a Western Bay of Plenty sub-region – population change over time  
2f Urban change and design – accommodating growing housing demand

**Possible learning activities:**

NOTE: Before conducting the activity visit the **Mapi** site for familiarisation. There are also a helpful videos on the following link: <http://gis.tauranga.govt.nz/maps/Help/Videos.html>

- 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>. Using the **2011, 2007** and **2003 Aerials** (on top toolbar), use the **Zoom** function to zoom in and out of different parts of the Mount and Tauranga. Start with a map scale (see top toolbar) of about 1:32,000 or 1km (see bottom left of map). Break into small groups or teams. Each group works through the list to see how many of the items they are able to find. Make it a competition to see who can find them all in the quickest time! Or put a time limit on the activity and see how many features are found in the given time.
- Share results and congratulate the group(s) who managed to find the most the fastest.  
Discuss as a class:
  - How easy or hard was it to find things on the map?
  - Why?

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**Curriculum Level:**

Level 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:*

*Participating and contributing*

*Principles:*

*Learning to learn*

*Values:*

*Community and participation*

**Geographic Key****Concepts:**

Patterns

**Geographic skills:**

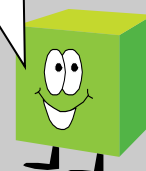
Photograph interpretation

**Assessment****opportunities:**

Geography Achievement Standards: 2.2, 3.3, 3.2, 1.6, 2.6, 3.6, 2.5 & 3.5

**Sustainability tip!**

Create re-usable worksheets: laminate and use a waterproof marker.



- What natural and cultural landscape features did you use to navigate your way around? (Roads, rivers, harbour....)
- Did you find the natural features, the roads or the buildings the easiest to find?

**Additional resources / activities:**

- Use the aerial maps to analyse spatial patterns – clustered and dispersed.
- Visit Google Earth and conduct a similar activity for other parts of the country.

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

- 3b Existing knowledge brainstorm
- 3c Précis map
- 3e Māori place names

## Aerial photo worksheet

Use the Tauranga City Council **Mapi** Tool to find the following. You can find these by using the Road or Property Search, or navigating around the map and using the Zoom feature. Then:

Select **Tasks**, and select **Export Maps**. **This will save the image onto your desktop**. Paste each feature onto a blank page. Shrink features so all features fit on two or three A4 pages. This can be printed off to show your teacher.

Tick the box once you have found and saved each feature:

YOUR NAMES:	START TIME:	FINISH TIME:
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Feature	✓ / ✗
The summit of Mauāo (Mount Maunganui)	
The Mall, Pilot Bay	
Subway, 92 Maunganui Road	
Container wharf (100 Mirrielees Road)	
Mount College (565 Maunganui Road)	
Harbour Bridge / Te Awanui Drive	
Tauranga Airport, Aerodrome Road	
Starbucks Café, 1 Spring Street	
The Movie Theatre at 45 Elizabeth St, Tauranga	
McDonalds, 549 Cameron Road	
Tauranga Hospital, 829 Cameron Road	
Your school	
New World Supermarket, 970 Cameron Road	
Lakes Boulevard (at the Lakes 'Greenfield' development)	
SH2 bridge crossing the Wairoa River	
Tauranga Race Course, 1381 Cameron Road	
The swimming pool and Aquatic Centre at the Bay of Plenty Polytechnic (73 Windermere Drive)	
The Transfer Station at 721 Truman Lane	
Pak'n'Save construction site at 42 Domain Road	
Bay Park Speedway	
Bayfair Shopping Centre	
Kaituna River (river mouth)	