



# **Alexandria Canal**

## Field Worksheet - Teacher answers and instructions

This is a program you can deliver yourself at a public site linked to a Sydney Water project.

Before taking your students on an excursion please complete your own risk assessment of the site and contact the relevant council to ensure the closest public toilets are available for your students to use on the day.

This program has supporting resources for the classroom

- Lesson plans linked to syllabus
- History of Alexandria Canal PowerPoint presentation with student's questions, teacher delivery notes, image sources and online links
- Two classroom worksheets

<b>Stage 4 – Water in the World</b> Teacher lesson plan – Alexandra Canal self-guide excursion		Sydney WATER
<ul> <li>The value of water <ul> <li>investigate the economic, cultural, spiritual and aesthetic values of water for Torres Strait Islander Peoples and/or peoples of the Asia region, for example description of the ways water is used by people eg agricultural, commercia - discussion of variations in people's perceptions about the value of water ge</li> </ul> </li> <li>Outcomes <ul> <li>explains how interactions and connections between people, places and environments result in change GE4-3</li> <li>discusses management of places and environments for their sustainability GE4-5</li> <li>acquires and processes geographical information by selecting and using geographical tools for inquiry GE4-7</li> <li>communicates geographical information using a variety of strategies GE4-8</li> </ul> </li> <li>Geographical enquiry skills <ul> <li>Acquiring geographical information</li> <li>collect, select and record relevant geographical data and information, using ethical protocols, from appropriate primary data and secondary information sources</li> </ul> </li> <li>Processing geographical information <ul> <li>evaluate information sources for their reliability and usefulness</li> <li>represent data in a range of appropriate forms, with and without the use of digital and spatial technologies</li> <li>apply geographical information</li> <li>present findings, arguments and ideas in a range of communication forms selected to suit a particular audience and purpose; using geographical terminology and digital technologies as appropriate</li> <li>reflect on their learning to propose individual and collective action in response to a contemporary geographical considerations, and predict the expected outcomes of their proposal</li> </ul> </li> </ul>	<ul> <li>br people, including Aboriginal and ple:</li> <li>al, industrial and recreational uses g.economic versus aesthetic</li> <li>Geographical concepts</li> <li>Place: the significance of places</li> <li>Environment: the significance of life, and the important interrelation and the environment</li> <li>Interconnection: no object of georviewed in isolation</li> <li>Sustainability: the capacity of the to support our lives and the lives into the future</li> <li>Change: explaining geographica investigating how they have developed and conducting surves Spatial technologies – ST</li> <li>satellite images, global positioning geographic and surves of the systems visual representations – VR</li> <li>photos, aerial photos, illustration multimedia, field sketches, web field were surves of the systems were support or surves of the systems of the system of the systems of the system of the systems of the systems of the system of the systems of the systems of the system of the systems of the system of the system of the systems of the system of the syste</li></ul>	Class group: Time: Suggestion • 3-4 x 60min class lessons • fieldwork 2-3 hours and what they are like the environment in human onships between humans ographical study can be e environment to continue of other living creatures I phenomena by eloped over time and distance and recording data, ays and interviews ng systems (GPS), (GIS) s, annotated diagrams, ools

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## Activity 1 - Sample answers

#### Activity 1: Where is Alexandra Canal and what will we see there?

Before you start the excursion, label on the map below what you think you will see.

What evidence can you see about the way the site is used by people?





## Activity 1 – Teacher notes

Aim of activity	Identify features that demostrate the significance of places and factors influencing people's perceptions of places. Students will develop geographically significant questions and plan an inquiry, using appropriate geographical methodologies and concepts with the use of satellite images.
Teacher delivery notes	<ul> <li>Use this activity with lesson one from the lesson plan for this site to plot where to investigate and hypothesise investigation outcomes</li> <li>The image on the worksheet is from <i>Nearmap</i>. However, Google will work just as well for you and your students.</li> <li>Look up Tempe Reserve to find this location</li> <li>Get the students to zoom in a take a closer look to identify the landscape features and human influences in the area.</li> <li>The PowerPoint presentation for this site will help understand the changes over time that have led to the shape of this location today.</li> </ul>
Questions to get students thinking	<ul> <li>Why is there a path along the water?</li> <li>Describe the shape of the waterway around Tempe Reserve</li> <li>Why is it shaped like this?</li> <li>What activities do you think people might do here?</li> </ul>
Resources links	Google map locations of Sydney Water Education Self Guide sites - https://www.google.com/maps/d/edit?hl=en∣=1sKakxJ3f5LEo- ZmC6KXBXOwo5fh_daPp≪=- 33.934785504486705%2C151.1492788713623&z=15
Notes	



## Activity 2 and 3 - Sample answers





## Activity 2 and 3 – Teacher notes

Aim of activity	By observing and conducting surveys, students can record relevant geographical data and information, using ethical protocols, from appropriate primary data. This information will identify the significance of the effect of human activities on natural and human environments.
Teacher delivery notes	Use this activity to complete a site evaluation for the landscape and waterway – looking at uses of the space by people, and animals, vegetation, litter, environmental quality (observation) and identify human modifications. You may like to have the students develop their own participant observation survey. You can use freely available online ID resources to find out what plants and animals are on the site.
Questions to get students thinking	<ul> <li>What are some other ways we could record this information?</li> <li>What does it tell us if we see lots of animal evidence in the area?</li> <li>How can we assess the value of the waterway by watching how people look at it?</li> <li>How can the amount of litter in a place change our opinion about it?</li> </ul>
Resources links	Participant observation surveys - https://www.deakin.edu.au/ data/assets/pdf file/0004/681025/Participant- observation.pdf Plant and animal ID https://www.environment.nsw.gov.au/questions/animal-identification https://www.ala.org.au/faq/species-identification/ https://australianmuseum.net.au/birds-in-your-backyards http://www.abc.net.au/science/articles/2007/09/26/2044094.htm
My notes	



### Activity 4 - Sample answers

#### Activity 4: Field sketch

There are lots of high rise apartment buildings being developed in the area.

All of them are looking over the water. Why?

ment P

- Find a spot on your walk that looks over the water.
- Complete a field sketch as described below and label the water features on this sketch that make it a good choice for an apartment.



This image is from point C marked on the image on page 1





## Activity 4 – Teacher notes

Aim of activity	The aim of a field sketch at this site is to identify the significance of location and ways people organise and manage spaces that we live in. Students observe and recording data with visual representations, describing the diverse features and characteristics places and environments.
Teacher delivery notes	<ul> <li>Most of the text books currently published offer in text or online field sketch instructions.</li> <li>First thing to remind students is that you do not have to be an artist to do a field sketch</li> <li>There are many online methods for cresting an annotated sketch.</li> <li>Please note that simply taking a photo is not the same as making notes about what you see at the time and place of a sketch. Students can look back on field sketch with notes and recall more than an image.</li> </ul>
Questions to get students thinking	<ul> <li>What are some other ways we could record this information?</li> <li>Why does real estate cost more with a water view?</li> <li>Why do people like living close to the water?</li> </ul>
Resources links	Field sketch https://www.geogspace.edu.au/verve/_resources/2.1.2.3_1_field_sketching.pdf http://Irrpublic.cli.det.nsw.edu.au/IrrSecure/Sites/Web/about_fieldwork/lo/ Observation/other/Createsketch.htm
My notes	



## Activity 5 - Sample answers

#### Activity 5: Changing values

From the bridge (point B marked on the image on page 1), look both ways at the banks of the canal. Using the photos provided, note the evidence you see of human uses of this waterway over time.

\* no pathway along old cement wall but new hobitat wall has pathway, frees, soating and gardens Which direction you are facing? \_\_\_\_\_\_



convert old

constructed with



Activity 5 - Teacher notes



Aim of activity	Using annotated photographs allows students to explain geographical phenomena of changes over time through natural and human geographical processes. They can also investigate the effect of management strategies in reducing the impact of natural and human geographical processes. By using this method students are observing and recording data to help explain how interactions and connections between people, places and environments result in change.
Teacher delivery notes	<ul> <li>The site for this activity is marked on the satellite image from page one of the student worksheet</li> <li>Students ability to complete this activity will be assisted by doing the PowerPoint support lesson before coming on site.</li> </ul>
Questions to get students thinking	<ul> <li>What are some other ways we could record this information?</li> <li>Can you see any: <ul> <li>natural landscape evidence from when it was called Sheas Creek?</li> <li>industrial build evidence from the time it was used for transport?</li> <li>evidence of use as a stormwater drain?</li> <li>evidence to show today's value of this waterway?</li> </ul> </li> </ul>
Resources links	Annotated photos https://serc.carleton.edu/eslabs/climate/2a.html
My notes	



### Activity 6 - Sample answers

#### Activity 6: Sensory mapping

Maps are not just about direction, landscapes and buildings. You can draw your own map to describe a site in many ways.

Stop at the water edge at point A (marked on the image on page 1).

Use symbols and words for the following:

- 1. Listen... what noises do you hear and what directions did it come from?
- 2. Feel... is the sun on your face? is the wind in your hair? What other things can you feel?
- 3. Emotion .... Are you happy? Content? Annoyed?
- 4. Use a word to describe the water you can see at this spot





## Activity 6 – Teacher notes

Aim of activity	The aim of sensory mapping is to use various senses to map experiences of an area. This method allows students to how people are affected by the environment and present is as an alternive form of communication.
Teacher delivery notes	<ul> <li>You may like to use an online guide before going into the field. It is good practice to go into the playground to try this first.</li> <li>You can support thoughts and feelings of sensory mapping by recording atmospheric readings as well, such as wind speed, humidity, sound decibel reading or light levels.</li> <li>You can use equipment like a lux meter, an anemometer and a decibel meter, or you can use</li> <li>mobile phone apps and attachments or</li> <li>scale diagrams and make an estimate. Links provided below.</li> </ul>
Questions to get students thinking	<ul> <li>What role does water play in the way you're feeling?</li> <li>How important are your other senses when thinking about what you like about a place?</li> <li>Are there other ways you could record what you're thinking and feeling?</li> </ul>
Resources links	Sensory mapping http://sensorymaps.com/ https://makingmaps.net/tag/sensory-mapping/ Scale diagrams for light, noise and wind https://www.2mcctv.com/blog/2011_09_15-cctv-lux-light-ratings/ https://www.faa.gov/regulations_policies/policy_guidance/noise/basics/ https://blog.metservice.com/BeaufortWindScale
My notes	



# **Evaluation**

l liked...

The students liked....

If I deliver this again I would....

I need to tell Sydney Water to....

Email: education@sydneywater.com.au