

Lesson Plan: SWAQ Maps
Level: Stage 3
Syllabus link: MA3-17MG "locates and describes position on maps using a grid-reference system"

## LESSON OUTLINE

Students will use satellite images to create simple grid maps of their school. They will then practice locating different landmarks (including the SWAQ station) using a grid-reference system.

## Resources/Materials:

```
|=.Worksheet (included)
|%.Ruler
|=. Pencil
```



## Description of activity:

In this lesson, students will use a satellite image of their school as a guide, and they will follow the steps on the worksheet to create a grid map of their school. An example map has been included on the first page of the worksheet.

The easiest method to create the map is to place the blank grid directly over the satellite grid, hold it up to the light coming from a window and trace the outlines of the roads and buildings. However, it is also possible to create the map by using a ruler to measure the appropriate lengths and positions of key objects and using the grid lines as a reference point.

Encourage your students to be as neat as possible. They should use a ruler whenever drawing a straight line and they should try to be as accurate as possible.

Upon completion of their maps, students should label their grids. The horizontal squares should be labelled with consecutive letters of the alphabet and the vertical squares with consecutive numbers, both starting from the bottom left-hand corner of the map. This will create the grid system that they will use to answer the worksheet questions. For example, if the SWAQ station is in the third square from the left, and second square from the bottom, it would be called C2. Make sure your students are familiar with this type of gridreference system before answering the questions.

## Things to note:

Make sure that you print the appropriate satellite image and grid for your students. As each school is different, there is a separate document for each school. However, all schools will use the same instruction worksheet.

## Additional Resources:

$\|^{*}$. A pirate introduces the concept of a grid map to help him find his treasure. https://education.abc.net.au/home\#!/media/2971399/on-the-grid
$1=$ A video showing a worked example for writing and using grid locations.
https://www.youtube.com/watch?v=1vfHkq-dVpl

I\#. A short interactive animation allowing students to practice locating objects using a grid system. https://www.scootle.edu.au/ec/viewing/L350/index.htmI\#

## Key Questions to Ask

Why do we use maps?
Why is a map sometimes more useful than a satellite image?
How does a grid-reference system work?
Why is it useful for a map to have a grid-reference system?
When using grid coordinates, do we write the letter or the number first?
Does the letter coordinate represent the horizontal or vertical direction?
Does the number coordinate represent the horizontal or vertical direction?



## Map for Brookvale Public School



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## Map for Chullora Public School



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## Map for Dulwich Hill Public School



## Map for Glenorie Public School



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## Map for Kellyville Public School



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Map for Kurnell Public School


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Map for Leppington Public School


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Map for Luddenham Public School


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## Map for Narellan Public School



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## Map for Newtown Public School



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## Map for Taren Point Public School



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