



Badge Work
Division 2 – Navigation



Equipment needed:

- 1:25,000 map
- Compass
- Ruler
- Pencil
- Paper

Activity	Date	Signature
<ul style="list-style-type: none"> • Find North using an analogue watch. • Find South using the Southern Cross • Find East / West using tree shadows. • Estimate time to sunset from the sun 		
On a map identify: <ul style="list-style-type: none"> • A good camping spot. • Possible sources of water. • Possible place to cross a stream. • Closest help/emergency point 		

Correctly complete the 'theory' questions.		
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Badge Achieved!

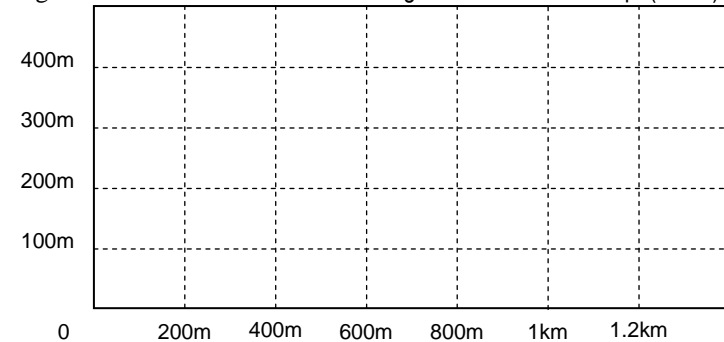
By (SWAG boy)	Date	Signature (SWAG leader)

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Theory

1. Working with the map provided:

- Identify a ridge and a valley.
- Which way does Bungonia Creek flow?
- Is the section of track (A1 – A2) uphill or downhill?
- What height must be climbed or descended. (A1 – A2)?
- Work out the distance between (A – B) along the track shown _____ kms
- Estimate the time to travel between (A – B) taking into consideration the terrain. _____ hrs
- Draw a cross-section from a straight line drawn on a map. (C – D)?



2. Working with a local Topographic Map and Compass

To be done on a camp or hike

- Explain the difference between True North, Grid North and Magnetic North.
- Identify the Magnetic Variation on the map.
- Explain the effect of metal objects on a compass.
- Convert a Magnetic Bearing to a Grid Bearing. (MUGA)
- Convert a Grid Bearing to a Magnetic Bearing. (GUMS)
- Orientate a map with a compass incorporating Magnetic Variation.
- Locate your position by taking two or more bearings.
- Identify a geographic point by taking a bearing from your known position on a map.
- Find a point on a map and travel to it by following a compass bearing.
- Create a route card with bearings, distance, waypoints and times.
- Plan a walk with possible camping spots and alternatives.