

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | Nautical Science | **GRADE** | 12 | **DATE** | 7/4/20 |
| **TOPIC** | Practical Chartwork | **TERM 1**  **REVISION** | X | **TERM 2 CONTENT** | X |
| **TIME ALLOCATION** | 20min | **TIPS TO KEEP HEALTHY**  1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.  2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.  3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.  4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.  5. **STAY AT HOME.** | | | |
| **INSTRUCTIONS** | This worksheet is to be completed in your MRTE exercise/activity book.  All work done on the chart must be done lightly using a 2B pencil.  Courses and bearings and corrections must be calculated to the nearest ½° and plotted to a similar accuracy.  Variation of 17° W is applicable where required.  Scientific calculators may be used.  Nautical tables may be used. |

**QUESTION 6**

2.1 Your vessel has anchored in Simon's Bay. The following horizontal sextant angles were observed between:

Simonsberg ∆ 546 and Else Pk. ∆ 303 is 75°

Else Pk. ∆ 303 and Kalkbaaiberg ∆ 515 is 43°

What is the position of the vessel in terms of range and bearing of Roman Rocks Light? (15)

2.2 Apart from Roman Rocks Light, identify three other salient points on the chart to monitor your anchorage position. (3)

2.3 Name two navigation instruments on the bridge that you could use to monitor your vessel's position whilst at anchor. (2)

**[20]**