

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

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | Nautical Science | **GRADE** | 11 | **DATE** | 14/4/20 |
| **TOPIC** | Meteorology | **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. |

**Question 1**

Keeping in mind that the average sea level air pressure is 1013mb.

Areas with an air pressure above 1013mb are considered to be areas of high pressure 1013mb.

Areas with an air pressure below 1013mb are considered to be areas of low pressure.

By means of simple drawings, illustrate the following:

* 1. Depression (2)
  2. Anti-cyclone (2)
  3. High pressure ridge (2)
  4. Low pressure trough (2)
  5. Col (5)

**Question 2**

Weather variables include, among others, air temperature, wind, precipitation.

Describe the expected weather associated with:

2.1 Depression (2)

2.2 Anti-cyclone (2)

2.3 High pressure ridge (2)

2.4 Low pressure trough (2)

2.5 Col (2)

2.6 Steep air pressure gradient (1)

2.7 Shallow air pressure gradient (1)