

# Unit Standard 19138

## Monitor and interpret weather information

### Assessment Task

#### Learner to complete

Learner Name	_____
Learner Phone Number	_____
Learner Address	_____
Learner Declaration	I declare that all work is my own.
Signature	_____ Date _____

#### Assessor to complete

Result	Standard Achieved <input type="checkbox"/>	Further Evidence Required <input type="checkbox"/>
Comments/Areas to revisit	_____	
Assessor's Name	_____	
Signature	_____ Date _____	

#### Re-assessment (if required) – Assessor to complete

Re-assessment Date	_____	
Result	Standard Achieved <input type="checkbox"/>	Further Evidence Required <input type="checkbox"/>
Signature	_____ Date _____	

## Instructions

- Write your name, phone number and address on the front page.
- Answer all questions in the spaces provided, use more paper if required.  
Alternatively the assessment could be completed orally with the assessor.
- You must show that you have achieved the standard by fully completing this assessment.
- If you do not attain the standard you will have an opportunity to attempt the assessment again.
- This is an open book assessment.

## Question 1

a) What is weather? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b) Describe how the following **four** features of weather fluctuate (change) in your area, and what causes these fluctuations.

Your area: \_\_\_\_\_

- **Weather feature 1: Temperature**

Usual fluctuations in your area (for example, high temperatures in spring but very cool autumn): \_\_\_\_\_  
\_\_\_\_\_

What causes these fluctuations: \_\_\_\_\_  
\_\_\_\_\_

- **Weather feature 2: Rainfall**

Usual fluctuations in your area: \_\_\_\_\_  
\_\_\_\_\_

What causes these fluctuations: \_\_\_\_\_  
\_\_\_\_\_

- **Weather feature 3: Wind**

Usual fluctuations in your area: \_\_\_\_\_

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What causes these fluctuations: \_\_\_\_\_

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- **Weather feature 4: Sunshine**

Usual fluctuations in your area: \_\_\_\_\_

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What causes these fluctuations: \_\_\_\_\_

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## Question 2

a) What is climate? \_\_\_\_\_

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b) Describe **three** factors that can affect climate by completing the table below.

Factor	How does it affect climate? (Give an example from your area)
<p><b>Latitude</b> (Distance from equator or pole)</p>	<hr/> <hr/> <hr/> <hr/> Latitude at my location is: <hr/>
<p><b>Altitude</b> (How high up you are)</p>	<hr/> <hr/> <hr/> <hr/> Altitude at my location is: <hr/>
<p><b>Proximity to ranges and ocean</b> (How close you are to the sea or a range of hills)</p>	<hr/> <hr/> <hr/> <hr/> Proximity to the sea at my location is: <hr/> Proximity to ranges at my location is: <hr/>

### Question 3

a) What is a micro-climate? \_\_\_\_\_

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b) Give an example of a micro-climate that you know of in New Zealand.

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### Question 4

How can a geographical feature, such as hills, forests or rivers modify the climate in an area?

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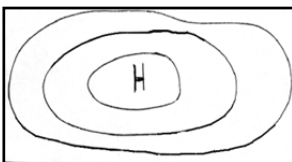
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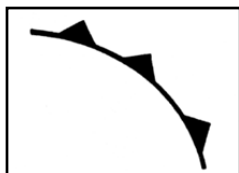
### Question 5

The box below includes terms found on weather maps. Find each feature on the pictures and write the letter from the picture next to the correct term.

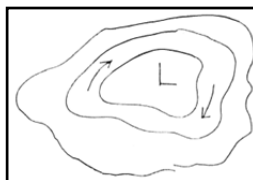
Isobar terms	Letter
High pressure system	
Low pressure system (depression)	
Trough	
Ridge	
Cold front	
Warm front	
Occluded front	
Stationary front	
Isobars	



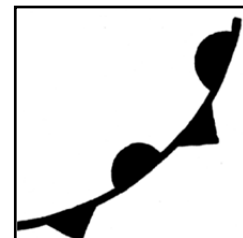
**A**



**B**



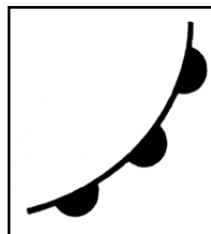
**C**



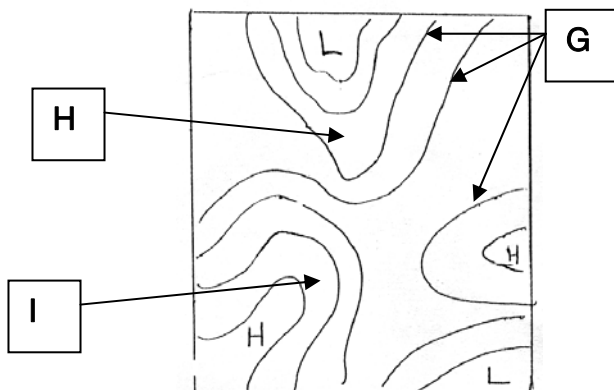
**D**



**E**



**F**



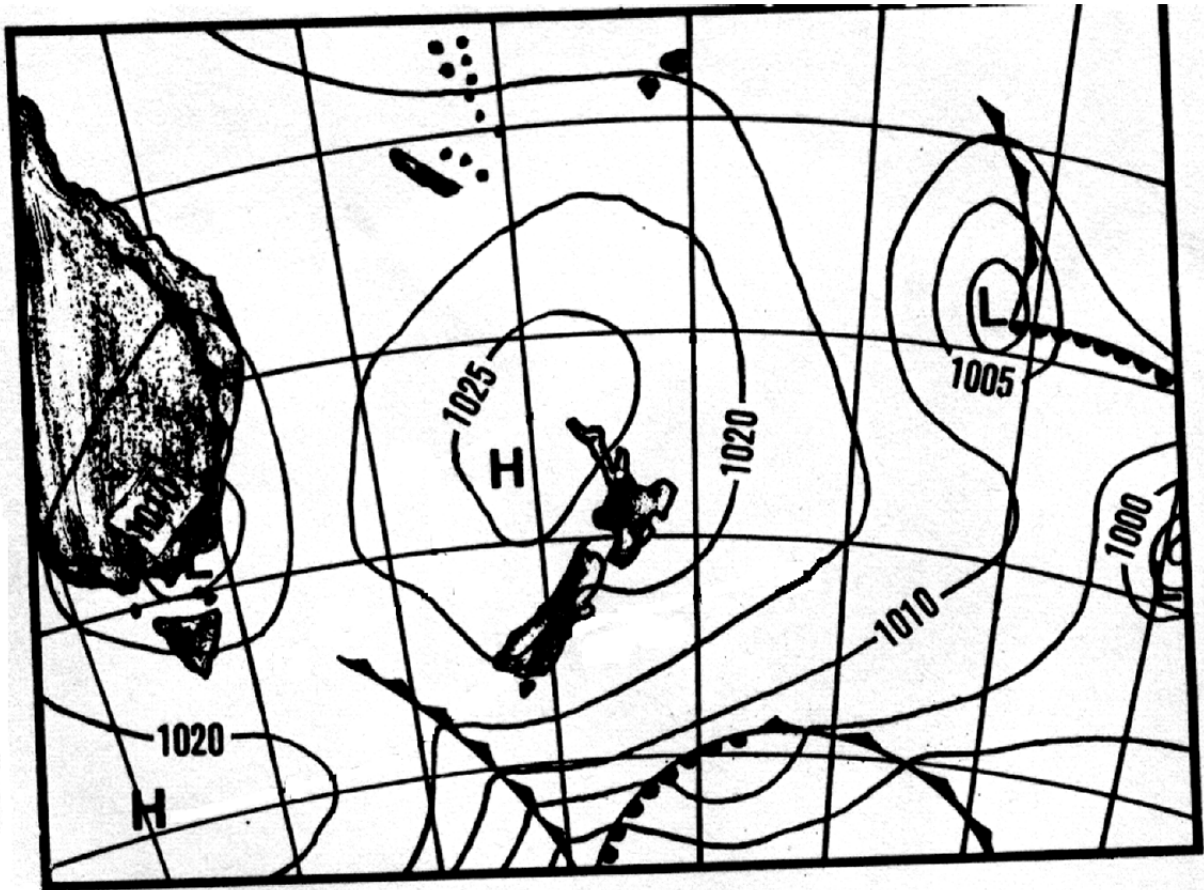
## Question 6

State the area you are living in and, for each of the following weather maps, write a forecast for a farm in your area over the next 48 hours.

You should include reasons for your forecast and the following details:

- Rainfall (if there is likely to be any rainfall)
- Temperature (cold, average or warm for the time of year)
- Wind (direction and strength)
- How these weather conditions will affect your farming activities.

August







You should include reasons for your forecast and the following details:

- Rainfall (if there is likely to be any rainfall)
- Temperature (cold, average or warm for the time of year)
- Wind (direction and strength)
- How these weather conditions will affect your farming activities.

April

