

Demonstrate understanding of rural pest animal operations in New Zealand



# Assessment Task

|                                |                                     |
|--------------------------------|-------------------------------------|
| <b>Learner Name</b>            |                                     |
| <b>School</b>                  |                                     |
| <b>Declaration / Signature</b> | I declare that this work is my own: |

|  |   |             |
|--|---|-------------|
| <b>Result</b>                          | Standard Achieved / Further evidence required |             |
| <b>Questions to revisit</b>            |   |             |
|  |   |             |
| <b>Assessor's name</b>                 | culture & Agriculture Teachers Association    |             |
| <b>Assessor's signature</b>            |   | <b>Date</b> |
| <b>Assessor Comments (if required)</b> |   |             |
| <b>Re-assessment date</b>              |   |             |
| <b>Result</b>                          | Standard Achieved / Further evidence required |             |
| <b>Assessor's signature</b>            |   | <b>Date</b> |

**Instructions.**

- Write your name on the front page.
- Answer the questions in the spaces provided, use more paper if required.
- You must answer ALL the questions.
- You must show evidence of spending time in the workplace in a pest control context. This can be diaries and or photos.
- If you do not reach the standard, you will have another opportunity to do the assessment again.
- This is an OPEN BOOK assessment

**Outcome 1 - Demonstrate understanding of pest animal introduction to New Zealand.**

Range: Possum, rabbit, one predator, one avian

The predator I studied was: \_\_\_\_\_

The avian I studied was: \_\_\_\_\_

1.1 Describe the pest animal's introduction into New Zealand, including any reasons or causes for the introduction.

a) When was the **POSSUM** introduced into NZ and give any reason for its introduction into New Zealand?

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b) When was the **RABBIT** introduced into and give any reason for its introduction into New Zealand?

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c) When was your chosen **PREDATOR** introduced into NZ and give any reason for its introduction into New Zealand?

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d) When was your chosen **AVIAN** introduced into NZ and give any reason for its introduction into New Zealand?

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**Outcome 1 all complete for all pests**

**Outcome 2 - Demonstrate understanding of pest animal physical appearance and behaviour**

2.1 Describe three distinguishing features of each pest animal.

a) Describe **three distinguishing features** the **POSSUM**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

b) Describe **three distinguishing features** the **RABBIT**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

c) Describe **three distinguishing features** of your chosen **PREDATOR**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

d) Describe **three distinguishing features** of your chosen **AVIAN**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Outcome 2.1 all complete for all pests**

2.2: Describe three habitat characteristics, and two preferred food sources for each pest animal.

a) Describe **three habitat characteristics** for the **POSSUM** and give examples of areas or locations where possums are an issue in your workplace and why?

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b) Describe **two preferred food sources** for the **POSSUM** and give examples of where food sources are abundant and how this affects the possum population in your workplace.

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c) Describe **three habitat characteristics** for the **RABBIT** and give examples of areas or locations where rabbits are an issue in your workplace and why?

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d) Describe **two preferred food sources** for the **RABBIT** and give examples of where food sources are abundant and how this affects the rabbit population in your workplace.

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e) Describe **three habitat characteristics** of your chosen **PREDATOR** and give examples of areas or locations where predators are an issue in your workplace and why?

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The logo for the Horticulture & Agriculture Teachers Association (HATA) is a large, light gray watermark centered on the page. It consists of the letters 'HATA' in a stylized, bold font, with the full name 'Horticulture & Agriculture Teachers Association' written in a smaller font below it.

f) Describe **two preferred food sources** for your chosen **PREDATOR** and give examples of where food sources are abundant and how this affects the predator population in your workplace.

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g) Describe **three habitat characteristics** for your chosen **AVIAN** and give examples of areas or locations where predators are an issue in your workplace and why?

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h) Describe **two preferred food sources** for your chosen **AVIAN** and give examples of where food sources are abundant and how this affects the avian population in your workplace.




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**Outcome 2.2 all complete for all pests**

2.3 Describe the day and night activity, and typical home range size of each pest animal

a) Describe the **day and night activities** of the **POSSUM** and regarding these, describe when it is the best time to control the possum?

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b) Describe the **typical home range size** of the **POSSUM**.

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c) Describe the **day and night activities** of the **RABBIT** and regarding these, describe when it is the best time to control the rabbit?

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d) Describe the **typical home range size** of the **RABBIT**.

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e) Describe the **day and night activities** of your chosen **PREDATOR** and regarding these, describe when it is the best time to control the predator?

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f) Describe the **typical home range size** of your chosen **PREDATOR**.

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g) Describe the **day and night activities** of your chosen **AVIAN** and regarding these, describe when it is the best time to control the avian?

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h) Describe the **typical home range size** of your chosen **AVIAN**

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Outcome 2.3 all complete for all pests

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2.4 Describe two aspects of the social structure and two behavioural characteristics of each pest animal

a) Describe **two aspects of the social structure** of **POSSUM**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

b) Describe **two behavioural characteristics** of the **POSSUM**

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

c) Describe **two aspects of the social structure** of the **RABBIT**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

d) Describe **two behavioural characteristics** of the **RABBIT**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

e) Describe **two aspects of the social structure** of your chosen **PREDATOR**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

f) Describe **two behavioural characteristics** of your chosen **PREDATOR**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

g) Describe **two aspects of the social structure** of your chosen **AVIAN**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

h) Describe **two behavioural characteristics** of your chosen **AVIAN**.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

**Outcome 2.4 all complete for all pests**

2.5 Describe the visual signs of presence of each pest animal

a) Describe the **visual signs** that a **POSSUM** has been present.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b) Describe the **visual signs** that a **RABBIT** has been present.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c) Describe the **visual signs** that your chosen **PREDATOR** has been present.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

d) Describe the **visual signs** that your chosen **AVIAN** has been present

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Outcome 2.5 all complete for all pests**

**Outcome 3 - Demonstrate understanding of traps used for control of pest animals**

Range: Traps must include two of leg hold, kill, cage, self-resetting

**Choose two of the traps** above and answer the following questions.

- 3.1 Describe the modes of actions of traps in accordance with manufacturer’s specifications
- 3.2 Describe the baits and/or lures used in each trap in accordance with relevant requirements.
- 3.3 Describe two advantages and two disadvantages for each trap type for trapping pest animals
- 3.4 Describe two situations best suited to the use of each trap in accordance with relevant requirements

**TRAP 1**

|  |
|--|
| Insert photo here  |
| Name of trap: _____  |
| Type of trap: _____  |
| Used to control (pest animal): _____   |
| 3.1 Describe <b>how the traps works</b> in accordance with manufacturer’s specifications and give reasons why the trap is most effective for the pest animal.<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____ |
| 3.2 Describe <b>the most appropriate baits or lures</b> used for this trap and what pest animal you would be using it for.<br>_____<br>_____<br>_____<br>_____   |

3.3 Describe **two advantages** with this trap for trapping the pest animals in your workplace.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

3.3 Describe **two disadvantages** with this trap for trapping pest animals in your workplace.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

3.4 Describe two situations when you would use of this trap

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

TRAP 2 \_\_\_\_\_

[Insert photo here](#)

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Name of trap: \_\_\_\_\_

Type of trap: \_\_\_\_\_

Used to control (pest animal): \_\_\_\_\_

3.1 Describe **how the traps works** in accordance with manufacturer's specifications and give reasons why the trap is most effective for the pest animal.

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3.2 Describe **the most appropriate baits or lures** used for this trap and what pest animal you would be using it for.

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3.3 Describe **two advantages** with this trap for trapping the pest animals in your workplace.

3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_

3.3 Describe **two disadvantages** with this trap for trapping pest animals in your workplace.

3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_

3.4 Describe two situations when you would use of this trap

3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_

Outcome 3 all complete for all pests

**Outcome 4 - Demonstrate understanding of toxins or fumigants used for control of pest animals**

Range: Four vertebrate toxic agents or fumigants

**Answer the following questions on each of these toxic agents or fumigants**

- 4.1 Identify the target species for each toxin or fumigant.
- 4.2 Describe the modes of action for each toxin or fumigant in accordance with manufacturer's specifications
- 4.3 Describe two best practice considerations for use of each toxin in accordance with relevant requirements

|   |
|---|
| <b>1. Potassium Cyanide</b>   |
| 4.1 What is the target species for this fumigant? Why is this particular fumigant suitable for the target species and not others?<br><hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>  |
| 4.2 Describe how this fumigant works on the pest animals<br><hr/> <hr/> <hr/> <hr/> <hr/> <hr/>   |
| 4.3 Describe <b>two best practice considerations</b> when using this fumigant, what are the dangers of not following these considerations. Why does it need to be stored as required?<br>1. <hr/> <hr/> <hr/> <hr/><br>2. <hr/> <hr/> <hr/> <hr/> |

**2. Para -aminopropiophenone (PAPP).**

4.1 What is the target species for this fumigant? Why is this particular fumigant suitable for the target species and not others?

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4.2 Describe how this fumigant works on the pest animals

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4.3 Describe two best practice considerations when using this fumigant, what are the dangers of not following these considerations. Why does it need to be stored as required?

1. 

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2. 

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**3. Diphacinone**

4.1 What is the target species for this fumigant? Why is this particular fumigant suitable for the target species and not others?

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4.2 Describe how this fumigant works on the pest animals

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4.3 Describe two best practice considerations when using this fumigant, what are the dangers of not following these considerations. Why does it need to be stored as required?

1. \_\_\_\_\_

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2. \_\_\_\_\_

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**4. Aphachlorolose**

4.1 What is the target species for this fumigant? Why is this particular fumigant suitable for the target species and not others?

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4.2 Describe how this fumigant works on the pest animals

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4.3 Describe two best practice considerations when using this fumigant, what are the dangers of not following these considerations. Why does it need to be stored as required?

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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**Outcome 4 all complete**

**Outcome 5: Describe pest animal population monitoring in New Zealand.**

5.1 Describe the purpose of pest animal population monitoring for pest management in New Zealand.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Outcome 5.1 complete**

5.2 Describe two monitoring techniques for each pest animal.

a) Describe two techniques used for monitoring possums and explain how they work and why they are most effective for monitoring possums.

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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2. \_\_\_\_\_  
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\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b) Describe two techniques used for monitoring rabbits and explain how they work and why they are most effective for monitoring rabbits.

1. \_\_\_\_\_  
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2. \_\_\_\_\_  
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c) Describe two techniques used for monitoring your chosen predator and explain how they work and why they are most effective for monitoring your chosen predator.

1. \_\_\_\_\_  
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2. \_\_\_\_\_  
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\_\_\_\_\_



d) Describe two techniques used for monitoring your chosen avian and explain how they work and why they are most effective for monitoring your chosen avian.

1. \_\_\_\_\_  
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2.

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**Outcome 5.2 complete**

5.3 Describe one method used to estimate the pest population abundance and why it is the most effective method to use for that pest animal.

Possum



Rabbit

Predator

|                |  |
|----------------|--|
| Avian<br><hr/> |  |
|----------------|--|

Outcome 5.3 complete



Evidence of being in a workplace in a pest control context

Evidence of being in a workplace in a pest control context e.g., diary, photos, or video

[Insert photos here](#)



**ASSESSOR:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**Any Comments:**