

305 TASK D GUIDE

Unit 305 Task D

Understand the Structure and Function of Sensory Organs

What Is This Task About?

For this assignment you will investigate the main sensory organs found in animals and explain how they help animals interact with their environment.

You will identify the structures of each sensory organ and describe their functions. You will also explain how sensory organs help animals find food, avoid danger and survive.

Assessment Criteria

You will need to:

- 4.1** Identify the main sensory organs
- 4.2** Describe the structure of the main sensory organs
- 4.3** Explain the function of the main sensory organs

What You Need To Produce

You must:

- ✓ Identify the main sensory organs
- ✓ Describe the structure of each sensory organ
- ✓ Explain the function of each sensory organ
- ✓ Explain how sensory organs help animals survive

You may present your work as a written report, fact file, presentation or poster, as agreed with your assessor.

Sensory Organs You Need To Know

Eyes

Main structures:

- Cornea
- Lens
- Retina
- Optic Nerve

Function:

- Detect light
- Detect colour
- Detect movement

Ears

Main structures:

- Outer Ear
- Middle Ear
- Inner Ear

Function:

- Hearing
- Balance

Nose

Main structures:

- Nasal Cavity
- Olfactory Receptors

Function:

- Detects smells

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Tongue

Main structures:

- Taste Buds

Function:

- Detects taste

Skin

Main structures:

- Sensory Receptors

Function:

- Detects touch
- Detects pressure
- Detects pain
- Detects temperature

Why Sensory Organs Are Important

Sensory organs help animals to:

- Find food
- Detect predators
- Avoid danger
- Communicate
- Navigate their environment
- Find mates
- Survive

How To Achieve A Pass

To achieve a Pass you must:

- ✓ Correctly identify the main sensory organs
- ✓ Describe the structure of each sensory organ
- ✓ Explain the function of each sensory organ

How To Achieve A Merit

To achieve a Merit you must do everything required for a Pass plus:

- ✓ Give more detailed descriptions of sensory organ structures
- ✓ Explain several functions for each sensory organ
- ✓ Use correct scientific terminology
- ✓ Show a good understanding of how animals use their senses

How To Achieve A Distinction

To achieve a Distinction you must do everything required for a Merit plus:

- ✓ Clearly explain how the structure of each sensory organ supports its function
- ✓ Give detailed examples of how animals use their senses
- ✓ Demonstrate excellent biological understanding throughout your work
- ✓ Present information accurately and professionally