

SNIFFING OUT MORE THAN JUST BONES



靈鼻出擊：不只愛啃骨頭的搜救犬

B1 • L4 Reading Worksheet | 課文閱讀與素養導向學習單 (備課與教學用)

授課年級：高中一年級 單元：Book 1 Lesson 4 難度：CEFR A2-B1

READING PASSAGE

*Sniffing Out More Than Just
Bones*

★ 紅字標註：核心字彙 / 藍框：常用片語 / 綠底線：關鍵句型

- Have you ever noticed that dogs can smell things we can't? This is because their sense of smell is much more **sensitive** [adj. 敏感的] than ours. For this reason, some dogs are trained to be sniffer dogs. They use their keen noses to **detect** [v. 偵測] things like hidden drugs. But this is not the only job sniffer dogs can **accomplish** [v. 完成]. They can also do many things to **help humans out**.
- In Pingtung, officials in a park use dogs to find trees with brown root rot **disease** [n. 疾病]. Thanks to their strong sense of smell, the dogs can detect **infected** [adj. 受感染的] trees. When a dog **locates** [v. 定位] one, it sits beside it and waits for a **reward** [n. 獎勵] from its trainer. Then, workers dig up the trees before they fall and hurt people. Now, other parks in Taiwan also ask these dogs to find trees with the same disease.
- Sniffer dogs can even find sickness in people. One night, Maria Tello, a woman with diabetes, was asleep. **All of a sudden**, her dog, Malachi, woke up. It could sense that Maria's blood sugar was very low. Malachi woke her up and ran to get her medicine. In this way, he saved her life — and did it four more times that year!
- How can sniffer dogs **manage to do** [manage to + V] these things? Diseases cause chemical changes in people, animals, and plants. These changes create special odors that dogs can smell. During training, trainers **expose the dogs to** [expose A to B] these smells again and again. They are taught to perform a kind of **behavior** [n. 行為], like sitting or barking, to **alert** [v. 警示] their trainers. When their training is complete, they are **assigned** [v. 指派] to **carry out** specific duties.
- Dogs are truly our best friends. If we keep learning more about them, they will help us even more. No one knows what else their sharp sense of smell will do for us in the future.

CLASS NOTES • 備課與教學重點指引 (Teacher Reference)

★ 課堂板書與延伸教學建議

① 核心句型 Focus

- manage to + V 設法做到某事
例：manage to do these things
- expose A to B 使A接觸B
例：expose the dogs to these smells
- be assigned to + V 被指派去...
例：assigned to carry out specific duties

② 關鍵片語 Collocations

- help sb out 幫助某人解決困難
- all of a sudden 突然間 (= suddenly)
- carry out 執行 (任務、計畫)
- sense of smell 嗅覺

③ 詞性轉換 Word Families

- sense (n.) → sensitive (adj.) 敏感的
- infect (v.) → infected (adj.) 受感染的 → infection (n.) 感染
- locate (v.) → location (n.) 位置
- behave (v.) → behavior (n.) 行為

LESSON 4 • SNIFFING OUT MORE THAN JUST BONES

★ 教師解答解析版 (Answer Key & Explanations)



Structure Map • Reading Practice • Translation

MISSION 1 (Structure Map): 50 / 50

MISSION 2 (Reading Practice): 50 / 50

TOTAL SCORE: 100 / 100

MISSION 1 • READING STRUCTURE MAP

每題 10 分，共 50 分

WORD BANK

sensitive⁽¹⁾ | infected⁽²⁾ | reward⁽³⁾ | chemical⁽⁴⁾ | assigned⁽⁵⁾

1 SUPER SNIFFERS

- Dogs have highly (1) **sensitive** sense of smell.
- Trained to detect drugs & help humans out.

【解析】對應第1段 "sense of smell is much more sensitive"。

2 TREE DOCTORS

- Detect (2) **infected** trees with root rot disease.
- Sit beside tree & wait for trainer's (3) **reward**.

【解析】對應第2段 "detect infected trees" 與 "wait for a reward"。

3 MEDICAL ALERTS

- Malachi sensed low blood sugar in Maria.
- Woke her up & fetched life-saving medicine.

【解析】對應第3段救助糖尿病主人的事例。

4 TRAINING & DUTIES

- Smell (4) **chemical** changes caused by disease.
- (5) **assigned** to specific duties after alert training.

【解析】對應第4段 "chemical changes" 與 "assigned to carry out"。

MISSION 2 • READING PRACTICE

每題 10 分，共 50 分

(A) Q1 Vocabulary

★

Security guards at the airport use special machines to **detect** forbidden items in luggage.

- (A) detect (C) envy
(B) decompose (D) refresh

【考點與解析】detect (v.) 偵測、查出。干擾排除：(B) 分解；(C) 羨慕；(D) 刷新。

(C) Q2 Vocabulary

★

The brave police officer was **assigned** to lead the dangerous rescue mission in the mountains.

- (A) ignored (C) assigned
(B) drifted (D) ruined

【考點與解析】assigned (v. p.p.) 被指派分派。干擾排除：(A) 忽視；(B) 漂流；(D) 搞砸。

(A) Q3 Big Idea

★

What is the main topic of this passage?

- (A) How sniffer dogs use their keen sense of smell to aid human society. (C) The medical treatment for diabetic patients in Pingtung.
(B) Why dogs prefer playing in parks rather than staying at home. (D) How chemical fertilizers cause root diseases in urban trees.

【考點與解析】主旨題。全文說明偵測犬如何發揮靈敏嗅覺，在查緝毒品、檢測樹木褐根病及預警人體疾病上協助人類，故選 (A)。

(C) Q4 Detail

★

What does a sniffer dog in Pingtung do after identifying a sick tree?

- (A) It bites the roots to cure the disease. (C) It sits beside the tree and waits for a reward.
(B) It barks loudly and runs back to the station. (D) It climbs the tree to scare away birds.

【考點與解析】細節題。依第2段 "When a dog locates one, it sits beside it and waits for a reward from its trainer."，故選 (C)。

(C) Q5 Inference

★

How are sniffer dogs able to detect diseases in plants and humans?

- (A) They have sharper eyesight than professional doctors. (C) They perceive unique odors caused by chemical changes.
(B) They can hear heartbeats from hundreds of miles away. (D) They taste the bark and leaves of trees.

【考點與解析】推論題。第4段說明疾病會造成化學變化並產生特殊氣味，狗經過訓練後能辨識這些氣味，故選 (C)。

文 TRANSLATION 課文完整中文翻譯參考，自我核對用

✓

1 狗的嗅覺比人類敏銳得多，因此被訓練為偵測犬。牠們不僅能查緝藏匿毒品，還能為人類提供多元協助。

2 屏東公園利用偵測犬找出罹患褐根病的樹木。當狗找到病樹便坐下等待獎勵，讓工人在樹木倒塌前及時挖除。

3 偵測犬甚至能發現人體疾病。瑪麗亞的狗馬拉基察覺其血糖過低，將她叫醒並拿藥，救了她一命！

4 疾病引起化學變化並產生特殊氣味。訓練師反覆讓狗接觸氣味並教導特定警示行為，完成後指派任務。

5 狗確實是人類好朋友。持續深入了解牠們，敏銳嗅覺未來必能為人類帶來更多貢獻。