

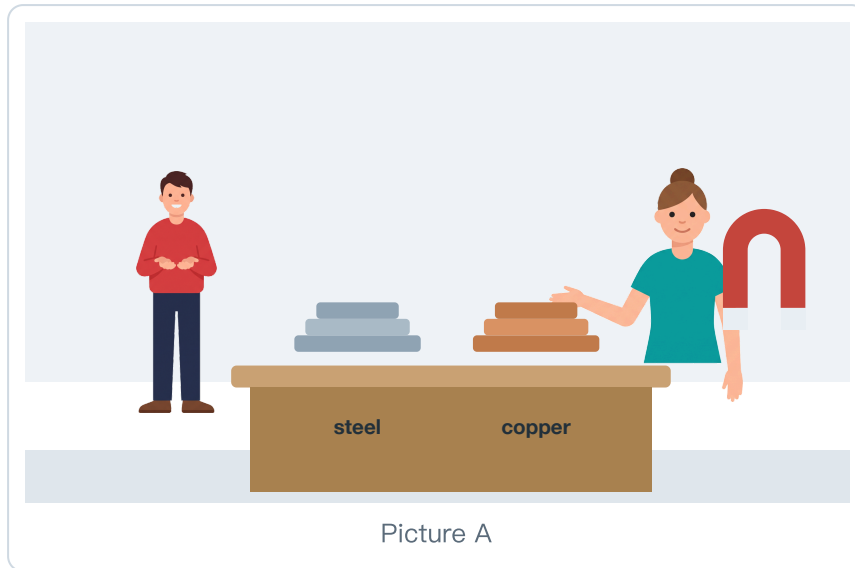
中級聽力測驗 單字第 23 回 能源與資源 教師用 (含錄音稿・答案・詳解)

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答案一覽

1	2	3	4	5	6	7
D	D	B	C	C	C	B
8	9	10	11	12	13	14
A	D	A	B	C	D	B
15	16	17	18	19	20	21
B	D	B	C	C	C	B
22	23	24	25	26	27	28
D	A	A	C	B	D	C
29	30	31	32	33	34	35
B	B	A	D	A	A	D

第 1 部分 看圖辨義 Picture Description



For questions number one and two, please look at picture A.

1. What is the woman holding? 答案 D

那位女子拿著什麼？

- A. A petal. 一片花瓣。
- B. A microphone. 一支麥克風。
- C. A tube of detergent. 一條清潔劑。
- D. A magnet. 一塊磁鐵。**

詳解 | 女子手上是馬蹄形磁鐵。magnet（磁鐵）是主題字；petal、detergent、tube、microphone 都是本回單字。

2. What are the metal pieces on the table made of? 答案 D

桌上的金屬片是什麼做的？

- A. Stone and clay. 石頭和黏土。
- B. Plastic and paper. 塑膠和紙。
- C. Wood and glass. 木頭和玻璃。
- D. Steel and copper. 鋼和銅。**

詳解 | 桌上標示著 steel 與 copper 兩堆金屬片。steel、copper、plastic 都是主題字。

Scrap Metal - Today's Prices	
Aluminium	NT\$46 / kg
Copper	NT\$240 / kg
Steel	NT\$9 / kg
Wire (with plastic)	NT\$18 / kg
Strip plastic from wire for a higher price.	

Picture B

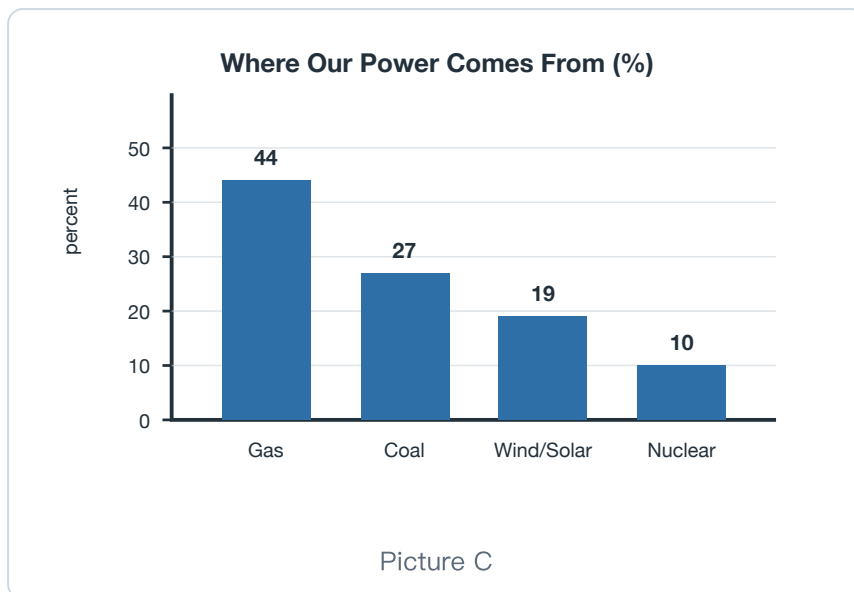
For question number three, please look at picture B.

3. According to the sign, which metal pays most per kilo? **答案 B**

根據看板，哪種金屬每公斤價格最高？

- A. Wire. 電線。
- B. Copper. 銅。**
- C. Steel. 鋼。
- D. Aluminium. 鋁。

詳解 | 看板上 Copper 每公斤 240 元最高。aluminium、copper、steel、wire 都是主題字。



For question number four, please look at picture C.

4. Looking at the chart, where does most of the country's power come from? **答案 C**

看這張圖表，這個國家的電力多數來自何處？

- A. Nuclear. 核能。
- B. Wind and solar. 風力與太陽能。
- C. Natural gas. 天然氣。**
- D. Coal. 煤。

詳解 | 圖中 Natural gas 44% 最高。nuclear (核能的)、fuel (燃料) 都是主題字。

Workshop Safety

Always	Waterproof gloves
Before cutting	Tie back long hair
If a tool falls in	Switch off the power
Report	Any rust on frames

Picture D

For question number five, please look at picture D.

5. Looking at the notice, what must be worn in the workshop? **答案 C**

看這張告示，工坊裡必須穿戴什麼？

- A. Rubber boots. 橡膠靴。
- B. A helmet only. 只要安全帽。
- C. Waterproof gloves. 防水手套。**
- D. Nothing special. 不需特別穿戴。

詳解 | 告示第一條寫 Waterproof gloves at all times。waterproof（防水的）是主題字。

第 2 部分 問答 Question Response

W: Why has the gate gone rusty so quickly?

那扇門為什麼這麼快就生鏽了？

6. **答案 C**

- A. A mean carpenter detailed the new edition. 一位吝嗇的木工詳述了新版本。
- B. Adequate wages made the bride glow. 足夠的工資讓新娘容光煥發。
- C. Salt air from the sea. 海邊的鹽分空氣。**
- D. The dull deed spilled across the weeds. 那樁枯燥的行為灑滿了雜草。

詳解 | rust（生鏽）是主題字。mean、carpenter、detail、edition、dull、deed、spill、weed、adequate、wage、bride、glow 都是誘答。

M: Is this pan made of steel or aluminium?

這個鍋子是鋼還是鋁做的？

7. 答案 B

A. Bare harm came to the tribe. 赤裸裸的傷害降臨在那個部落。

B. Aluminium — that's why it's so light. 鋁的——所以這麼輕。

C. We cannot tolerate low motivation. 我們無法容忍低落的動機。

D. He acquired a punch in the vacant hall. 他在空蕩的大廳挨了一拳。

詳解 | steel、aluminium 都是主題字。bare、harm、tribe、acquire、punch、vacant、tolerate、motivation 都是誘答。

W: How much fuel does this generator use?

這台發電機用多少燃料？

8. 答案 A

A. About six liters an hour. 大約每小時六公升。

B. She winked and coped with her possessions. 她眨了眨眼，處理好自己的財物。

C. The shelter gave them confidence and tolerance. 那個避難所給了他們信心與寬容。

D. A gulf divided the orchestra. 一道隔閡分裂了那個管絃樂團。

詳解 | fuel（燃料）是主題字。shelter、confidence、tolerance、wink、cope、possession、gulf、orchestra 都是誘答。

M: Is this material magnetic?

這種材料有磁性嗎？

9. 答案 D

A. The institution held a rehearsal in slang. 那家機構用俚語進行了一次彩排。

B. Urgent teams are equipped and loyal. 緊急小組配備齊全又忠誠。

C. Superb intelligence closed the deficit. 極佳的智慧彌平了赤字。

D. No, copper isn't. 沒有，銅沒有磁性。

詳解 | magnetic（有磁性的）、copper（銅）都是主題字。urgent、equip、loyal、superb、intelligence、deficit、institution、rehearsal、slang 都是誘答。

W: Why did they close the nuclear plant?

他們為什麼關閉核電廠？

10. 答案 A

A. It reached the end of its safe life. 它已達安全使用年限。

B. Not necessarily — the needy neighborhood disagrees. 不見得——那個貧困的街區不同意。

C. Second-hand detergent smelled of petals. 二手的清潔劑聞起來像花瓣。

D. Lychee juice stained the vacant stool. 荔枝汁弄髒了那張空凳子。

詳解 | nuclear (核能的) 是主題字。second-hand、detergent、petal、lychee、necessarily、needy、neighborhood 都是誘答。

M: What is this thin wire for?

這條細電線是做什麼用的？

11. 答案 B

A. Winds came from the northeast, then the northwest. 風先從東北來，然後轉西北。

B. It carries the signal to the sensor. 它把訊號傳到感應器。

C. The novelist went nowhere near the nursery. 那位小說家沒靠近托兒所半步。

D. Nonsense! The nonstop train is normal. 胡說！那班直達車是正常的。

詳解 | wire (電線) 是主題字。nonsense、nonstop、normal、northeast、northwest、novelist、nowhere、nursery 都是誘答。

W: Are these pipes plastic or copper?

這些管子是塑膠還是銅的？

12. 答案 C

A. He flushed and quoted the pasta recipe. 他臉紅了，還引用了那份義大利麵食譜。

B. Nursing staff seized the microphone. 護理人員抓走了麥克風。

C. Plastic. They were replaced last year. 塑膠的，去年換過了。

D. They distribute pottery to convey goodwill. 他們發送陶器以表達善意。

詳解 | plastic、copper 都是主題字。nursing、seize、microphone、flush、quote、pasta、distribute、pottery、convey 都是誘答。

M: Is that jacket waterproof?

那件外套防水嗎？

13. 答案 D

- A. A bang stirred the damp continent. 一聲巨響震動了潮濕的大陸。
- B. The carpenter's edition of the deed was dull. 木工那個版本的契約很枯燥。
- C. Frost covered the globe-shaped landscape. 霜覆蓋了地球形狀的風景。
- D. Only for light rain, not a storm. 只擋得住小雨，暴雨不行。

詳解 | waterproof (防水的) 是主題字。bang、stir、damp、continent、frost、globe、landscape 都是複習字誘答。

W: What runs through this tube?

這根管子裡通的是什麼？

14. 答案 B

- A. The bride's possessions glowed in the shelter. 新娘的財物在避難所裡發光。
- B. Cooling water for the engine. 引擎的冷卻水。
- C. Weeds spilled from the vacant orchestra. 雜草從空蕩的管絃樂團裡溢出來。
- D. A loyal tribe tolerated the deficit. 一個忠誠的部落容忍了赤字。

詳解 | tube (管子) 是主題字。其餘選項語意不通，用來複習 loyal、tribe、tolerate、deficit、bride、possession、glow、shelter、weed、spill、vacant、orchestra。

M: Where can I buy a strong magnet?

哪裡買得到強力磁鐵？

15. 答案 B

- A. An urgent novelist punched the detergent. 一位緊急的小說家揍了清潔劑一拳。
- B. The hardware shop on Third Street. 第三街的金五行。
- C. Confidence and motivation acquire petals. 信心與動機獲得了花瓣。
- D. Adequate slang equips the nursery. 足夠的俚語裝備了托兒所。

詳解 | magnet (磁鐵) 是主題字。其餘選項用來複習 adequate、slang、equip、nursery、urgent、novelist、punch、detergent、confidence、motivation、acquire、petal。

第 3 部分 簡短對話 Short Conversations

M: The copper wire costs twice as much as last year.
銅線的價格是去年的兩倍。

W: Can we use aluminium instead?
可以改用鋁嗎？

M: For this job, yes. It carries enough current.
這個案子可以，導電量夠。

16. What will they use? **答案 D**

他們會用什麼？

- A. Steel. 鋼。
- B. Plastic. 塑膠。
- C. Copper. 銅。
- D. Aluminium. 鋁。**

詳解 | copper、wire、aluminium 都是主題字。

W: This tool has gone rusty in the shed.
這個工具在工具間生鏽了。

M: Oil it and it will be fine.
上點油就沒事了。

W: I'll do that before it gets worse.
我趁還沒更糟前處理。

17. What will the woman do? **答案 B**

女子會做什麼？

- A. Buy a new one. 買新的。
- B. Oil the tool. 給工具上油。**
- C. Paint it. 把它漆起來。
- D. Throw the tool away. 丟掉工具。

詳解 | rust（生鏽）是主題字。

M: Is the roof of that shelter waterproof?

那個遮蔽處的屋頂防水嗎？

W: It was, until the storm tore a corner.

本來是，直到暴風雨掀掉一角。

M: Then we'd better fix it before Friday.

那我們最好週五前修好。

18. What is the problem with the roof? 答案 C

屋頂有什麼問題？

A. It is too heavy. 太重。

B. It is too low. 太低。

C. A corner was torn. 一角被掀開。

D. It is rusty. 生鏽了。

詳解 | waterproof (防水的) 是主題字、shelter 是通用字。

W: Does the new bus run on diesel?

新公車用柴油嗎？

M: No, it's fully electric.

不是，是全電動的。

W: So no fuel costs at all?

那完全沒有燃料費？

19. What kind of bus is it? 答案 C

那是什麼樣的公車？

A. Hybrid. 油電混合。

B. Diesel. 柴油。

C. Electric. 電動。

D. Gas. 天然氣。

詳解 | fuel (燃料) 是主題字。

M: Keep the magnet away from your phone.

把磁鐵拿離你的手機遠一點。

W: Does it really do damage?

真的會造成損害嗎？

M: To the compass, yes.

對指南針會。

20. What can the magnet affect? **答案 C**

磁鐵會影響什麼？

A. The screen. 螢幕。

B. The battery. 電池。

C. The compass. 指南針。

D. The camera. 相機。

詳解 | magnet、magnetic 都是主題字。

W: They are replacing the steel pipes with plastic.

他們正把鋼管換成塑膠管。

M: Won't plastic break more easily?

塑膠不是比較容易破嗎？

W: Not this kind. And it never rusts.

這種不會，而且永遠不生鏽。

21. Why is plastic used? **答案 B**

為什麼用塑膠？

A. It is cheaper. 比較便宜。

B. It does not rust. 不會生鏽。

C. It is stronger. 比較強韌。

D. It is lighter to carry. 比較好搬。

詳解 | steel、plastic、rust 都是主題字。

Scrap Prices Today

Metal	Price per kilo
Aluminium	NT\$46
Copper	NT\$240
Steel	NT\$9
Iron	NT\$7

M: Which scrap should I bring in first?

我該先送哪一種廢金屬？

W: Look at today's prices.

看今天的價格。

M: I've got twenty kilos of each.

每一種我都有二十公斤。

22. Which metal is worth least to the man? **答案 D**

哪種金屬對男子最不值錢？

A. Copper. 銅。

B. Steel. 鋼。

C. Aluminium. 鋁。

D. Iron. 鐵。

詳解 | 每種都是二十公斤，單價最低的是 Iron（每公斤 7 元），所以最不值錢。aluminium、copper、steel 都是主題字。

W: The tube under the sink is leaking again.

水槽下面那根管子又漏了。

M: Same joint as last time?

跟上次同一個接頭嗎？

W: No, further along.

不是，更後面一點。

23. Where is the leak? 答案 A

漏水在哪裡？

A. Further along the tube. 管子更後面的地方。

B. At the same joint. 同一個接頭。

C. In the wall. 牆壁裡。

D. At the tap. 水龍頭。

詳解 | tube (管子) 是主題字。

M: Do we still get power from nuclear?

我們還有核能發的電嗎？

W: About a tenth, and falling.

大約十分之一，而且還在下降。

M: Gas has taken most of it, then.

那大部分被天然氣取代了。

24. How much power comes from nuclear? 答案 A

核能供應多少電力？

A. About a tenth. 大約十分之一。

B. None. 完全沒有。

C. Half. 一半。

D. Most of it. 大部分。

詳解 | nuclear (核能的) 是主題字。

Flashlight Batteries

Type	Lasts	Price
Type A	8 hours	NT\$40
Type B	22 hours	NT\$95
Type C	40 hours	NT\$180
Type D	15 hours	NT\$65

W: Which battery should I buy for the flashlight?

手電筒該買哪一種電池？

M: The comparison chart is on the shelf.

架上有比較表。

W: I want the one that lasts longest, price aside.

我要最耐用的，價格不管。

25. Which battery will the woman buy? **答案 C**

女子會買哪一種電池？

A. Type A. A 型。

B. Type B. B 型。

C. Type C. C 型。

D. Type D. D 型。

詳解 | 表中續航最久的是 Type C (40 小時)。fuel、wire 情境相關。

第 4 部分 簡短談話 Short Talks

M: Welcome to the metal recycling center. Please sort your load before you reach the scale. Copper and aluminium go in the two blue containers; steel and iron go in the gray one, and we can tell them apart with a magnet, so please do not mix them. Anything with plastic still attached is paid at the lower rate, so strip wires if you can. Payment is by bank transfer, not cash, and it arrives within two working days.

歡迎來到金屬回收中心。請在過磅前先分類。銅與鋁放兩個藍色桶子；鋼與鐵放灰色那個，我們用磁鐵就能分辨，所以請不要混放。仍附著塑膠的物品以較低價計算，因此請盡量剝除電線外皮。款項以銀行轉帳支付，不付現金，兩個工作天內入帳。

26. Where do copper and aluminium go? 答案 B

銅與鋁放哪裡？

- A. The gray container. 灰色桶子。
- B. The two blue containers. 兩個藍色桶子。**
- C. The scale. 磅秤。
- D. The office. 辦公室。

詳解 | Copper and aluminium go in the two blue containers。copper、aluminium 都是主題字。

27. How does the center tell steel from other metals? 答案 D

中心如何分辨鋼與其他金屬？

- A. By color. 靠顏色。
- B. By smell. 靠氣味。
- C. By weight. 靠重量。
- D. With a magnet. 用磁鐵。**

詳解 | we can tell them apart with a magnet。magnet、steel 都是主題字。

28. Why should wires be stripped? 答案 C

為什麼要剝除電線外皮？

- A. It is required by law. 法律規定。
- B. It saves space. 比較省空間。
- C. Plastic lowers the price. 塑膠會拉低價格。**
- D. It is safer. 比較安全。

詳解 | Anything with plastic still attached is paid at the lower rate。wire、plastic 都是主題字。

W: A quick safety talk before you enter the workshop. Waterproof gloves must be worn at all times, because the cleaning liquid burns skin. Tie back long hair before you use the cutting machine. If a tool falls into the tank, do not reach in; switch the power off first, then tell a supervisor. Finally, report any rust you see on the frames. A rusty frame is not just ugly; it is a sign that water is getting in somewhere.

進入工場前先做個簡短的安全說明。防水手套必須全程配戴，因為清潔液會灼傷皮膚。使用切割機前請把長髮綁起來。若工具掉進槽裡，不要伸手去撈；先關掉電源，再通知主管。最後，看到框架上有鏽請回報。生鏽的框架不只是難看；那代表某處有水滲入。

29. Why must gloves be worn? 答案 B

為什麼必須戴手套？

- A. The tools are sharp. 工具很利。
- B. The cleaning liquid burns skin.** 清潔液會灼傷皮膚。
- C. It is a rule only. 只是規定。
- D. The room is cold. 房間很冷。

詳解 | the cleaning liquid burns skin。waterproof 是主題字。

30. What should you do first if a tool falls in the tank? 答案 B

工具掉進槽裡首先該做什麼？

- A. Call for help. 呼救。
- B. Switch off the power.** 關掉電源。
- C. Reach in quickly. 快點伸手去撈。
- D. Drain the tank. 把槽排空。

詳解 | switch the power off first。

31. Why does rust matter? 答案 A

為什麼生鏽很重要？

- A. It shows water is getting in.** 代表有水滲入。
- B. It stains clothes. 會弄髒衣服。
- C. It is expensive to clean. 清理很貴。
- D. It looks bad. 很難看。

詳解 | it is a sign that water is getting in somewhere。rust 是主題字。

M: Our island's power supply has changed twice. Forty years ago almost everything ran on imported fuel, which made electricity costly whenever world prices rose. Then a nuclear plant was built, and prices steadied for a generation. That plant closed last year, and the gap has been filled mostly by natural gas, with wind and solar growing quickly but from a small base. The lesson for planners is that no source stays cheap forever.

我們島上的供電變過兩次。四十年前幾乎全靠進口燃料，只要國際價格上漲，電費就昂貴。後來蓋了一座核電廠，電價穩定了一個世代。那座電廠去年關閉，缺口主要由天然氣填補，風力與太陽能成長很快，但基數小。給規劃者的教訓是：沒有任何能源會永遠便宜。

32. What was the problem forty years ago? 答案 D

四十年前的問題是什麼？

- A. Too little power. 電力太少。
- B. No wind power. 沒有風力。
- C. Nuclear accidents. 核能事故。
- D. Imported fuel made prices rise. 進口燃料使價格上漲。**

詳解 | almost everything ran on imported fuel。fuel 是主題字。

33. What filled the gap after the plant closed? 答案 A

電廠關閉後缺口由什麼填補？

- A. Natural gas. 天然氣。**
- B. Coal. 煤。
- C. Imported electricity. 進口電力。
- D. Solar only. 只有太陽能。

詳解 | filled mostly by natural gas。nuclear 是主題字。

34. What is the speaker's conclusion? 答案 A

講者的結論是什麼？

- A. No source stays cheap forever. 沒有能源會永遠便宜。**
- B. Nuclear is best. 核能最好。
- C. Gas is the answer. 天然氣就是答案。
- D. Solar cannot work. 太陽能行不通。

詳解 | no source stays cheap forever。

Material Comparison

Material	Weight	Cost	Strength
Aluminium	Light	Medium	Good
Copper	Heavy	High	Good
Steel	Heavy	Low	Best
Plastic	Lightest	Lowest	Poor

W: Please look at the printed comparison of four materials while I speak. Notice that the lightest of the four is not the cheapest, and the strongest is not the heaviest. We choose aluminium for the frame because weight matters more than price here. Copper would conduct better, but it costs three times as much and would double the weight. Plastic is out of the question for parts that get hot, however cheap it is.

我說明時請看印出的四種材料比較表。請注意四者中最輕的不是最便宜的，最強的也不是最重的。我們選鋁做框架，因為在這裡重量比價格更重要。銅導電更好，但價格是三倍，重量也會加倍。至於會發熱的零件，塑膠再便宜也絕對不能用。

35. According to the table and the talk, why is aluminium chosen for the frame?

答案 D

根據表格與談話，為什麼框架選用鋁？

- A. It never rusts. 它永不生鏽。
- B. It conducts best. 它導電最好。
- C. It is the cheapest. 它最便宜。
- D. It is light, and weight matters most here.** 它輕，而這裡重量最重要。

詳解 | weight matters more than price here。aluminium、copper、plastic 都是主題字。