


<p>試題文本</p>	 <p>http:// nofoodwaste.com</p> <h1>No Food Waste • Waste No Food</h1> <p><b>Technology Helps!</b></p> <p>According to UNEP (UN Environment Programme) in 2021, about 1 billion tons of food was wasted around the world. Food waste happens on farms, on the way to stores, in restaurants, and from customers. About one-third of food is wasted before it is eaten. Up to 17% of food waste comes from restaurants and family leftovers.</p> <p>Food waste is about not only food but also greenhouse gases. A report from UNEP shows that up to 10% of global greenhouse gases come from food that is produced but not eaten. The more food waste we make, the more greenhouse gases there will be. France, Italy, and Spain have made laws to reduce food waste, and so has Taiwan. Taiwan also works hard on cutting down on leftovers in school lunches. Food waste is a headache around the world, and we are now looking for helpful technology designs to fix the problem.</p> <ul style="list-style-type: none"> <li>• We want... Technology designs that help fight food waste</li> <li>• Who can join the contest? Groups with 3-5 people</li> <li>• Sign up for the contest: Fill in the application and send it to nofoodwaste@nff.org. by April. 20th.</li> </ul> <p><a href="#">MORE INFO</a></p> <p>leftover 廚餘 reduce 減少 application 申請書</p>
<p>問題 1</p>	<p>1. Jack is checking the contest from “NO FOOD WASTE WASTE NO FOOD”, which page is he checking now?</p> <p>(A) About Us          (B) Our Work          (C) Join Us          (D) Take Action</p>

答案 D

問題 2

2. Here is what we can know about food waste from the reading. What is the last one?

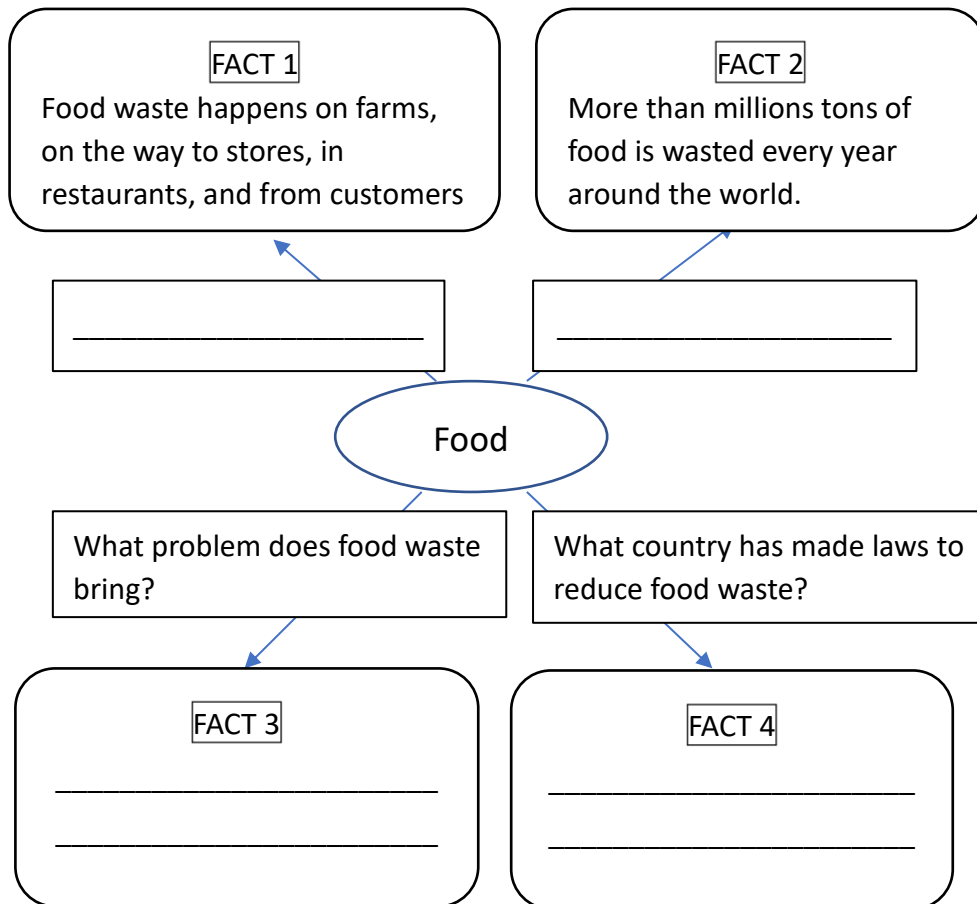
Where does food waste happen?
How much food is wasted?
What country has made laws to reduce food waste?
?

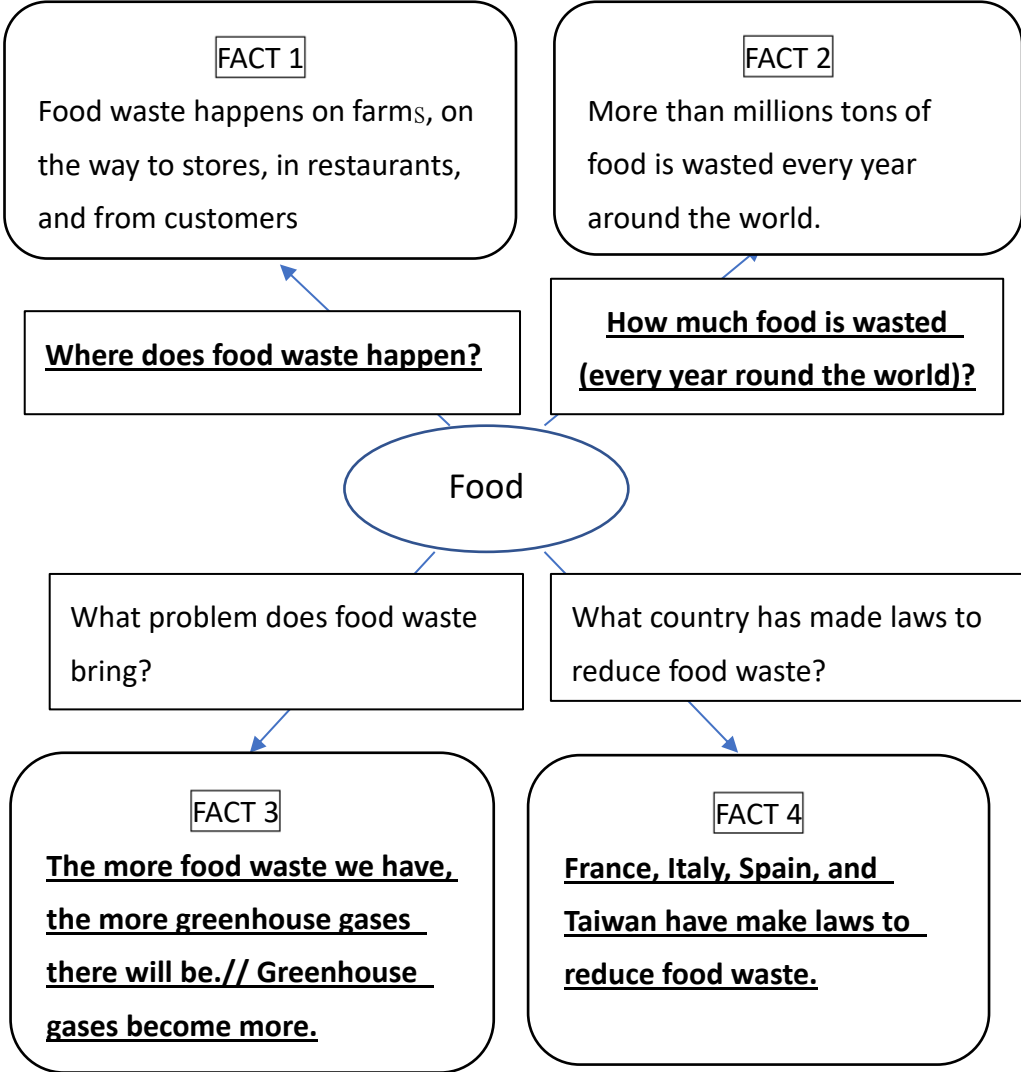
- (A) Where does food waste happen the most?
- (B) What can we do to reduce food waste?
- (C) Why does food waste happen?
- (D) What problems does food waste bring?

差異化試題：

Here are four facts of food waste in this reading. Please fill in the blanks in a complete sentence according to the reading.

complete 完整的



<p>答案</p>	<p>正題答案： D</p> <p>差異化試題答案如下：</p> 
<p>評分標準</p>	<p>正題：</p> <p>滿分：與正確答案相符。</p> <p>零分：與正確答案不符</p> <p>差異化試題：(每格 2 分)</p> <p>滿分：四個空格填答與正確答案相符</p> <p>部份給分：四個空格只答對 1-3 格，或填答不完整(如文法有錯誤，或未用完整句則只得 1 分)</p> <p>零分：四個空格答案皆錯誤或答非所問、不知所云。</p>

**[[Group Work]]**

**Here is one of the applications of “Technology Helps.” Please read this application for reference and check information from “Technology Helps” Then work in groups to discuss a new application for “Technology Helps.”**

reference 參考 method 方法

<b>Name of Design:</b> SuperSmart	
<b>Leader and</b>	<b>Leader:</b> Jack Smith
<b>Group Members</b>	<b>Members:</b> Jason Brown, Jessica Smith
<b>Application Date:</b> April 10,2023	
<b>Short Introduction of Your Design</b>	
<p>SuperSmart is an app that can record sold and unsold food in your shop. The data can help shopkeepers know when and what food will be sold the best and the least. SuperSmart helps shopkeepers waste less food because shopkeepers can buy the right amount of food at the very beginning with the data. The reason why I want to design SuperSmart is that I see much food thrown away in the recycle bin near the markets. With my app, there will be less unsold food turning bad and being thrown away.</p>	
<b>Picture of My Design:</b>	

amount 數量 data 數據

**New Application of Your Group**

**Name of Design:**

**Leader and**

**Leader:**

**Group Members**

**Members:**

**Application Date:**

**Short Introduction of Your Design**

\_\_\_\_\_ (Name of your design ) is

a(n) \_\_\_\_\_ (app/machine/others) that can

\_\_\_\_\_.

The reason why I want to design this is that \_\_\_\_\_

\_\_\_\_\_

My design can help make food waste less because \_\_\_\_\_

\_\_\_\_\_

**Picture of My Design:**

◎差異化試題:

**Please read Jack's diary and answer the question.**

*April 3, 2023*

*Last month, I invited Jason, Ben to join "Technology Helps" with me. I knew they had been interested in the issue of food waste. Jason agreed but Ben didn't. He said he had to prepare for his final exam. So I turned to my sister, Jessica for help. Jessica was very excited to know about the news and she joined us right away. We planned to write an app that can tell shopkeepers when and what food will be sold the best and the least by recording their sold and unsold food so that shopkeepers can buy the right amount of food at the very beginning. Though writing "SuperSmart" took much time, everyone had a lot of fun. "SuperSmart" is now in the last stage. I think we can finish our testing in a week and sign up for the contest then. 😊*

issue 議題

Here's Jack's application for the contest. Please fill in the blank after you read his diary. Besides, you have to create a picture of Jack's design according to his diary.

Name of Design: _____	
Leader and Group	Leader: Jack Smith
Members	Members: _____ Brown, _____ Smith
Application Date: April 10, 2023	
<b>Short Introduction of Your Design</b>	
<p>SuperSmart is an app that can _____</p> <p>SuperSmart helps shopkeepers waste less food because shopkeepers can _____ at the very beginning with the data. Besides, shopkeepers can also make more money by knowing _____ can be sold the best. I believe there will be more and more shopkeepers using this program, and more and more food will be saved, too.</p>	
<b>Picture of My Design</b>	

data 數據

案

參考答案: (正題)

Name of Design: UglyFood	
Leader and Group	Leader: Jack Smith
Members (根據網站規定團隊須 3-5 人，故須符合人數限制才能給分)	Members: Jason Brown, Jessica Smith

**Application Date:** April 10,2023 (根據網站規定，必須要在 4 月 20 前完成報名，故須符合報名時間才給分)

**Short Introduction of Your Design**

**UglyFood** (Name of your design ) is an **app**(app/machine/others) that can **tell you the shops where you can buy UglyFood.Besides, it can also tell you what ugly food you can buy.** (必須闡述設計品的功能)

The reason why I want to design this is that **bad-looking food is always thrown away on the farms even though they do not go bad. Some shops help sell ugly good,but they don't have good business.** (必須寫出為何想設計此產品的原因)

My design can help make food waste less because **people who want to buy ugly food can know where they can buy it so that shops which sell ugly food can have a better business.** (必須解釋為何這項設計品可以幫助減少食物浪費)

**Picture of My Design:** (所繪的圖片必須與所設計的產品有關)

(參考圖)



◎ 正確答案：差異化試題

Here's Jack's application for the contest. Please fill in the blank after you read his diary.

<b>Name of Design:</b> <u>SuperSmart</u>	
<b>Leader and Group</b>	<b>Leader:</b> Jack Smith
<b>Members</b>	<b>Members:</b> <u>Jason</u> Brown, <u>Jessica</u> Smith
<b>Application Date:</b> April 10, 2023	
<b>Short Introduction of Your Design</b>	



SuperSmart is an app that can tell shopkeepers when and what food will be sold the best and the least //record sold and unsold food in shops. SuperSmart helps shopkeepers waste less food because shopkeepers can buy the right amount of food at the very beginning with the data. Besides, shopkeepers can also make more money by knowing when and what food can be sold the best. I believe there will be more and more shopkeepers using this app, and more and more food will be saved, too.

**Picture of My Design (所繪圖片必須包含關鍵圖：app,數據,食物)**

評分標準

**第三題評分標準**

**基本資料部分**

滿分：基本資料按照文本”Technoloy Helps”所敘述填寫並且全對  
 部分給分：基本資料有部分錯誤  
 零分：基本資料未填寫或基本資料全填錯

**設計描述部分**

滿分：按照引導句寫出自己的設計相關敘述，設計必須運用科技，以及說明為何會產生這樣的設計與自己的設計可以如何減少食物浪費  
 部分給分：按照引導句寫出自己的設計相關敘述，設計必須運用科技，以及說明為何會產生這樣的設計與自己的設計可以如何減少食物浪費，但不完整，或僅有部分關聯或句子錯誤太多  
 零分：未作答或未依引導句寫出自己的設計相關敘述，產品設計原因、如何運用設計減少食物浪費或設計與運用科技無關。

**繪圖部分**

滿分:所繪圖片與自己產品的功能有關。  
 零分:未繪圖或所繪圖片與所介紹的產品功能無關。若此設計為運用科技，即使所繪圖片與產品功能有功也是零分。

**差異化試題評分標準**

**基本資料部分**

滿分：基本資料按照文本”Jack’s diary”所敘述填寫並且全對

部分給分：基本資料有部分錯誤

零分：基本資料未填寫或基本資料全填錯

**設計描述部分**

滿分：按照文本”Jack’s diary”的敘述填寫句子

部分給分：按照文本”Jack’s diary”的敘述填寫句子，但並未完全答對。

零分：未作答或所寫的句子與正確解答的描述無關。

**繪圖部分**

滿分：所繪圖片與 Jack 產品的功能有關。

零分：未繪圖或所繪圖片與 Jack 的產品無關。

問題 4

**Please listen to the dialogue and answer the question.**

Woman: I think PowerUp is the best. It can keep the most food from being wasted than the other two designs.

Man: Yes, but it's also the most expensive of the three ones. Its price is so high that common people won't buy it. FightFoodWaste is my top 1. It's much cheaper and easy to be used.

Woman: That's true, but "How much food waste can be cut down" takes up to 40% of our grades. "Price" and "Easy to be used" are 30% and 20%. What's more, PowerUp can not only fight food waste but also be friendly to our earth, and this helps it get extra points.

Man: You are right. Now let's talk about which one comes after PowerUp? FightFoodWaste or CountOnMe?

Woman: CountOnMe gets the same grades as PowerUp in all items except for the extra points, and its total grades are higher than FightGoodWaste.

Man: That's true. All right, I think we get the answer now.

**(口説) The top 3 of the contest have come out. Please tell us which design is the best, which one wins second prize, and which one is the third.**

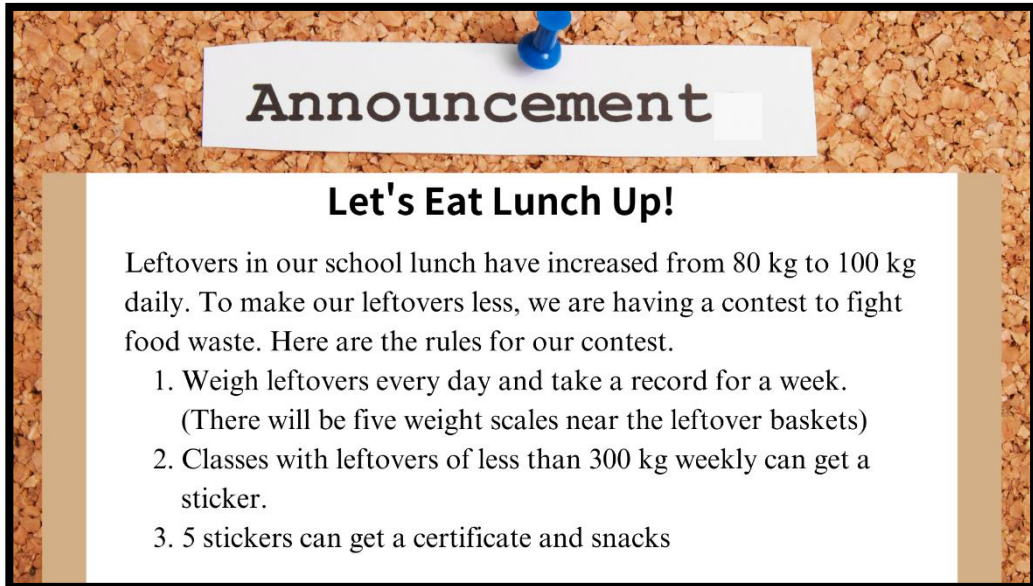
◎差異化試題：

**(口説) Here is the grading card for this contest. Please tell us why PowerUp got first prize according to the grading items and the percentage in complete sentences.**

<b>Grading Items for "Technology helps."</b>	
<b>Items</b>	<b>Percentage(%)</b>
How much food waste can be cut down?	40%
Price	30%
Easy to be used	20%
Extra Points	10%

<p>答案</p>	<p><b>正題:</b></p> <p>The first is Powerup. The second is CountOnMe. The Third is FightFoodWaste</p> <p><b>差異化試題</b></p> <p>答案中需點出三個重點:</p> <ol style="list-style-type: none"> <li>1.可以減少最多的食物浪費。</li> <li>2.減少最多的食物浪費所佔的評分比例最高。</li> <li>3.對地球友善可以額外加分。</li> </ol> <p>參考答案：</p> <p>Because it can save the most food and this item takes up 40% (the most percentage)of the grading.Besides, it is friendly to our earth so it can get extra poits.</p>																
<p>評分標準</p>	<p><b>第四題正題:</b></p> <p>Rubrics</p> <table border="1" data-bbox="354 898 1377 1223"> <tr> <td>滿分(3)</td> <td>能以完整句正確的說明三者的順序，如答案所示。</td> </tr> <tr> <td>部份給分(2)</td> <td>無法以完整句說出，但答案正確 e.g. One, Powerup. Two, CountOnMe. Three, FightFoodWaste</td> </tr> <tr> <td>部份給分(1)</td> <td>僅答對 1-2 個答案，無論句子是否為完整句。</td> </tr> <tr> <td>零分</td> <td>未作答或完全答錯。</td> </tr> </table> <p><b>第四題差異化試題：</b></p> <p>答案中需點出三個重點:</p> <ol style="list-style-type: none"> <li>1.可以減少最多的食物浪費。</li> <li>2.減少最多的食物浪費所佔的評分比例最高。</li> <li>3.對地球友善可以額外加分。</li> </ol> <p>Rubrics</p> <table border="1" data-bbox="354 1597 1377 1921"> <tr> <td>滿分(3)</td> <td>能以完整句正確的說出三個 PowerUp 為何得第一的原因。</td> </tr> <tr> <td>部份給分(2)</td> <td>能說出三個 PowerUp 為何得第一的原因，但句子不完整。</td> </tr> <tr> <td>部份給分(1)</td> <td>僅說出 1-2 個 PowerUp 為何得第一的原因，無論是否為完整句。</td> </tr> <tr> <td>零分</td> <td>未作答或完全未說出 PowerUp 為何得第一的原因</td> </tr> </table>	滿分(3)	能以完整句正確的說明三者的順序，如答案所示。	部份給分(2)	無法以完整句說出，但答案正確 e.g. One, Powerup. Two, CountOnMe. Three, FightFoodWaste	部份給分(1)	僅答對 1-2 個答案，無論句子是否為完整句。	零分	未作答或完全答錯。	滿分(3)	能以完整句正確的說出三個 PowerUp 為何得第一的原因。	部份給分(2)	能說出三個 PowerUp 為何得第一的原因，但句子不完整。	部份給分(1)	僅說出 1-2 個 PowerUp 為何得第一的原因，無論是否為完整句。	零分	未作答或完全未說出 PowerUp 為何得第一的原因
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<p>問題 5</p>																	

5. Here's an announcement and from ABC junior high school.



**Announcement**





**Let's Eat Lunch Up!**

Leftovers in our school lunch have increased from 80 kg to 100 kg daily. To make our leftovers less, we are having a contest to fight food waste. Here are the rules for our contest.

1. Weigh leftovers every day and take a record for a week.  
(There will be five weight scales near the leftover baskets)
2. Classes with leftovers of less than 300 kg weekly can get a sticker.
3. 5 stickers can get a certificate and snacks

announcement 通知 leftover bins 廚餘桶

Some students posted their ideas online after they read the announcement.

 <p>I think this contest can help make leftovers less, but I don't want to waste my lunch break weighing the leftovers. Besides, I don't want to be made to eat anything when I'm already full.</p> <p>Emma</p>	 <p>This contest can work. To win the certificate and snacks, I'll try not to leave any leftovers.</p> <p>Andy</p>
 <p>In our class, vegetables are always left the most, and meat is the least. This contest can reduce leftovers and make us have a balanced diet because we need to eat our lunch up.</p> <p>May</p>	 <p>Taking a record of leftovers is nice because the lunch provider can know which dishes students like and don't like. The key to reducing leftovers is not through contests but through yummy food.</p> <p>Sean</p>

**5-1**

**According to the reading, who supports the contest “ Let’s Eat Lunch Up?”**

**Please list their reasons.**

support 支持

Student(s) who support(s) the contest is(are) \_\_\_\_\_.

The reasons are as follows:

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**5-2**

**Do you support the contest or not? List one reason according to the reading. You can write your reasons based on the following:**

- A. The goal of the contest**
- B. The methods of the contest**
- C. The four students’ ideas**

based on 根據 method 方法

I support the contest because

---

---

or

I don’t support the contest because

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答案

**5-1**

Student(s) who support(s) the contest is(are) Andy and May.

The reasons are as follows.

1. Andy wants to win the certificate and snacks, so he will try not to leave any leftovers.
2. May thinks this contest can make her have a balanced diet because she needs to eat her lunch up.

**5-2 參考答案 :**

\* 比賽目的(減少午餐廚餘):

e.g., I don’t support the contest because it can’t help reduce food waste for a long time.

	<p>*比賽方法(所列三點):</p> <p>e.g. I support the contest because weighing leftovers takes time so I don't have to take a nap in the classroom during lunch break.</p> <p>*四位同學的理由:</p> <p>e.g. I don't support the contest because if lunch providers can give yummy food, there will be no more leftovers. (adapted from Sean)</p>				
<p>評分標準</p>	<p><b>5-2 Rubrics</b></p> <p>學生必須根據文中比賽目的(減少午餐廚餘)、比賽方法(所列三點)與四位同學的意見來書寫自己贊成與不贊成的理由。</p> <table border="1" data-bbox="359 739 1385 1964"> <tr> <td data-bbox="359 739 534 1512"> <p>滿分</p> </td> <td data-bbox="534 739 1385 1512"> <p>所說明的理由在本文中未提到，但與比賽目的(減少午餐廚餘)、比賽方法(所列三點)有關，或是改寫四位同學的理由。</p> <p>* 比賽目的(減少午餐廚餘):</p> <p>e.g., I don't support the contest because it can't help reduce food waste for a long time.</p> <p>*比賽方法(所列三點):</p> <p>e.g. I support the contest because weighing leftovers takes time, so I don't have to take a nap in the classroom during lunch break.</p> <p>*改寫四位同學的理由:</p> <p>e.g. I don't support the contest because if lunch providers can give yummy food, there will be no more leftovers. (adapted from Sean)</p> </td> </tr> <tr> <td data-bbox="359 1512 534 1964"> <p>部份給分</p> </td> <td data-bbox="534 1512 1385 1964"> <p>所書寫的理由與四位同學相同，且未做句型改寫或句意延伸</p> <p>四位同學的理由如下：</p> <p>*Reasons for supporting the contest according to the reading</p> <ol style="list-style-type: none"> <li>1. Taking a record of leftovers is nice because the lunch provider can know which dishes students like and don't like.</li> <li>2. To win the certificate and snacks, I'll try not to leave any</li> </ol> </td> </tr> </table>	<p>滿分</p>	<p>所說明的理由在本文中未提到，但與比賽目的(減少午餐廚餘)、比賽方法(所列三點)有關，或是改寫四位同學的理由。</p> <p>* 比賽目的(減少午餐廚餘):</p> <p>e.g., I don't support the contest because it can't help reduce food waste for a long time.</p> <p>*比賽方法(所列三點):</p> <p>e.g. I support the contest because weighing leftovers takes time, so I don't have to take a nap in the classroom during lunch break.</p> <p>*改寫四位同學的理由:</p> <p>e.g. I don't support the contest because if lunch providers can give yummy food, there will be no more leftovers. (adapted from Sean)</p>	<p>部份給分</p>	<p>所書寫的理由與四位同學相同，且未做句型改寫或句意延伸</p> <p>四位同學的理由如下：</p> <p>*Reasons for supporting the contest according to the reading</p> <ol style="list-style-type: none"> <li>1. Taking a record of leftovers is nice because the lunch provider can know which dishes students like and don't like.</li> <li>2. To win the certificate and snacks, I'll try not to leave any</li> </ol>
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<p>部份給分</p>	<p>所書寫的理由與四位同學相同，且未做句型改寫或句意延伸</p> <p>四位同學的理由如下：</p> <p>*Reasons for supporting the contest according to the reading</p> <ol style="list-style-type: none"> <li>1. Taking a record of leftovers is nice because the lunch provider can know which dishes students like and don't like.</li> <li>2. To win the certificate and snacks, I'll try not to leave any</li> </ol>				

		<p>leftovers.</p> <p>3. This contest can make us have a balanced diet.</p> <p>*Reasons for not supporting the contest according to reading</p> <p>1. I don't want to waste my lunch break weighing the leftovers.</p> <p>2. I don't want to be made to eat anything when I'm full.</p> <p>3. The key to reducing leftovers is not through contests but through yummy food.</p>	
	零分	<p>所選立場的理由與本文所提及的比賽目的(減少午餐廚餘)、比賽方法(所列三點)與四位同學的意見無關</p> <p>e.g. I support the contest because wasting food is not right.</p> <p>e.g. I support the contest because leftovers become more and more.</p>	

註：本表係參考本中心命題原則及國家教育研究院素養導向「紙筆測驗」要素等資料製定