

A++

Observing the sun- Sun and life

Warmer

1. What role does the sun play in our daily lives? *LA: 太陽能發電*
2. Which technological products run on solar energy? *Acra*

Language

Solar energy 1	Renewable energy 3	Solar panels 2
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*solar energy*

<i>Renewable energy</i>	Energy from a source that is not depleted when used, such as wind or solar power.
<i>solar panels</i>	A panel designed to absorb the sun's rays as a source of energy for generating electricity or heating.
<i>solar energy</i>	Radiant energy emitted by the sun.

Content

Watch a video of What is Solar Energy? (5:07) and discuss the following questions in a small group.

1. Do these wind, water and fossil fuels also need solar energy?
2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

Notes: 1. Yes
2. 60000 times (倍)
3. 50 year (oil) 115 year (coal)

Thinking

K what I know	W What I want to know?	L What I learned
<i>太陽與地球的知識</i>	<i>銀河系的知識</i>	<i>太陽, 影子, 地球的概念</i>

A++

### Observing the sun- Sun and life

**Warmer**

1. What role does the sun play in our daily lives? *發電*
2. Which technological products run on solar energy? *solar energy car.*

**Language**

Solar energy	Renewable energy	Solar panels <i>太陽能板</i>
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Renwable	Energy from a source that is not depleted when used, such as wind or solar power.
Solar panels	A panel designed to absorb the sun's rays as a source of energy for generating electricity or heating.
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panels  
一片一片

**Content**

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1. Do these wind, water and fossil fuels also need solar energy?
2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

比地球  
330大

Notes: <i>Yes!</i>
<i>6000 times</i>
<i>自然氣、石油、50年、煤 115年</i>

**Thinking**

K what I know	W What I want to know?	L What I learned
<i>太陽比地球大330倍。太陽表面溫度有5500°C!</i>	<i>太陽裡有沒有生物 (太陽很熱, 可能那是他們的大氣?)</i>	<i>我們現在知道太陽表面有5500°C</i>

在生能源  
renewable

A++

Observing the sun- Sun and life

Warmer

1. What role does the sun play in our daily lives? 種菜 ✓
2. Which technological products run on solar energy? 太陽能車 ✓

Language

Solar energy	Renewable energy	Solar panels
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2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

Notes:	1. Yes, it is.
	2. 60000 times.
	3. 50 years.

Thinking

K what I know	W What I want to know?	L What I learned
石油、天然氣在五十 年後可能就沒了煤 石炭在一百一十五年 也有可能消失。	為什麼太陽系的星 球都在固定的軌道 上? ✓	太陽能在生活中是 不可或缺的能源。 ✓

A++

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 種植物
2. Which technological products run on solar energy? 太陽能車

**Language**

Solar energy	Renewable energy	Solar panels
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1. Do these wind, water and fossil fuels also need solar energy? Yes
2. How many times the temperature of the sun is the temperature of baking pizza? 60000 Times
3. How many years will it take us to run out of oil and coal?

Notes: ① Yes
② 60000 Times
③ 115 煤石礦 50年 天然氣 石油

**Thinking**

K what I know	W What I want to know?	L What I learned
太陽能還可以在用60000年。	太陽能可以省多少電?	太陽能可以運用在哪些東西上

A++

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 發電
2. Which technological products run on solar energy? 太陽能太空站, 太陽能車

**Language**

Solar energy	Renewable energy	Solar panels
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renewable energy	Energy from a source that is not depleted when used, such as wind or solar power.
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1. Do these wind, water and fossil fuels also need solar energy?
2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

Notes: 對
60000倍
oil can use 50 years, coal can use 115 years.

**Thinking**

K what I know	W What I want to know?	L What I learned
1. 很多東西都是用太陽能。	1. 沒有太陽會怎麼樣。	我覺得太陽是不可或缺的。

A++

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 發電 ✓
2. Which technological products run on solar energy? 太陽能車 ✓

**Language**

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1. Do these wind, water and fossil fuels also need solar energy? Yes
2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal? 113 years

Notes: 1. Yes
2. Sixty thousand times
3. Fifty years

**Thinking**

K what I know	W What I want to know?	L What I learned
太陽一直在爆火炸 ✓	哪一年我們可以去太陽上面生活 ✓	宇宙很深奧 ✓

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 晒衣服
2. Which technological products run on solar energy? 太陽能車

**Language**

Solar energy	Renewable energy	Solar panels
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2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

Notes: ① Yes
② 6萬倍
③ 115年煤礦 50年天然氣、石油

**Thinking**

K what I know	W What I want to know?	L What I learned
115年煤礦會用完 ✓	太陽能什麼時候會消失 ✓	太陽能有更多使用方式 ✓

A++

Observing the sun- Sun and life

Warmer

1. What role does the sun play in our daily lives? have fire
2. Which technological products run on solar energy? car

Language

Solar energy	Renewable energy	Solar panels
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Watch a video of What is Solar Energy? (5:07) and discuss the following questions in a small group.

1. Do these wind, water and fossil fuels also need solar energy? Yes
2. How many times the temperature of the sun is the temperature of baking pizza? 6000(Times)倍
3. How many years will it take us to run out of oil and coal? 115 Years: coal  
50 Years: oil

Notes:	1. Yes
	2. 6000(Times)倍
	3. 115 Years: coal 50 Years: oil

Thinking

K what I know	W What I want to know?	L What I learned
1. 太陽的體積是地球的幾倍(相當於幾顆地球)。 2. 太陽隨時都在爆炸。	1. 太陽內部結構。 2. 全宇宙有幾顆太陽。 <small>↓ 煤多</small>	宇宙還有很多我們尚未探索到的地方, 只有努力實踐才有辦法發現它最深處的奧妙。



**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 發電 (太陽能)
2. Which technological products run on solar energy? 太陽能熱水器

**Language**

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2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

<b>Notes:</b> yes
60000 Times (倍)
50 year to oil (石油) 115 year to coal (煤炭)

**Thinking**

K what I know	W What I want to know?	L What I learned
我知道太陽能可以發電。	我想知道太陽還有什麼用途。	我學到石油，煤炭還要幾年才用完。

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives?

晒衣服 ✓

2. Which technological products run on solar energy?

計算機 ✓

A-

**Language**

Solar energy	Renewable energy	Solar panels
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<u>renewable</u>	<u>Renewable energy</u>	Energy from a source that is not depleted when used, such as wind or solar power.
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1. Do these wind, water and fossil fuels also need solar energy?

yes 沒錯

2. How many times the temperature of the sun is the temperature of baking pizza?

60000倍

3. How many years will it take us to run out of oil and coal?

**Notes:**

1. <u>Yes 沒錯</u>
2. <u>6,0000倍</u>
3.

**Thinking**

K what I know	W What I want to know?	L What I learned
?	?	?

Observing the sun- Sun and life

Warmer

1. What role does the sun play in our daily lives? *plant a tree*
2. Which technological products run on solar energy?

*太陽能車、太陽能熱水器、太陽能太空站、太陽能路燈、  
太陽能計算機、太陽能公車站*

A++

Language

Solar energy	Renewable energy	Solar panels
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3. How many years will it take us to run out of oil and coal?



PIZZA

Notes: 1. Yes.
2. 6,000 Times.
3. OIL = 50 Years      Coal = 115 Years

Thinking

K what I know	W What I want to know?	L What I learned
<i>太陽越高影子越短。太陽在東，影子就會在西。</i>	<i>太陽變黑(後)會有多大?</i>	<i>我覺得太陽很亮，只是烤食物會烤焦。</i>



### Observing the sun- Sun and life

A++

**Warmer**

1. What role does the sun play in our daily lives? 種植物
2. Which technological products run on solar energy? 車子

**Language**

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3. How many years will it take us to run out of oil and coal?

<b>Notes:</b> Yes it is! 對!
60,000 Times! 60,000 次!
Coal 115 years will run out. Oil 50 years will run out.

煤炭會在 115 年時沒有。油則會在 50 年時用完。

**Thinking**

K 我學到了..... what I know	W 我想知道..... What I want to know?	L 感想~ What I learned
1. 太陽如何發光發熱 2. 太陽能做什麼?	如果太陽沒有了, 我們能看見其他會發光發熱的行星嗎?	我覺得太陽給了很關於生活的東西!

A++

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 晒東西。
2. Which technological products run on solar energy? 太陽能計算機, 太陽能路燈。

**Language**

Solar energy 太陽能	Renewable energy 再生能源	Solar panels 太陽能板
Renewable energy	Energy from a source that is not depleted when used, such as wind or solar power.	
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3. How many years will it take us to run out of oil and coal?

Notes: 1. 沒錯。
2. 60000倍。
3. 天然氣和石油50年後就沒了,而煤碳還可以用115年。

**Thinking**

K what I know	W What I want to know?	L What I learned
我們在生活中有很多事情都是需要太陽的,太陽的溫度是我們烤披薩的60000倍。	太陽能可以用在很多東西上,為什麼有些太陽能會失敗?	我學到了太陽可以用在生活中的許多事上,如果沒有太陽,我們就不能活在世界上了。

A++

### Observing the sun- Sun and life

**Warmer**

1. What role does the sun play in our daily lives? 發電 ✓
2. Which technological products run on solar energy? 太陽能計算機 ✓

**Language**

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3. How many years will it take us to run out of oil and coal?

<b>Notes:</b> Yes, it is
60,000 Times
natural gas and oil 30 years coal 115 years

**Thinking**

K what I know	W What I want to know?	L What I learned 感想
1. 太陽可以做什麼 2. 太陽怎麼發光發熱	如果太陽沒有了,我們看的到其他發光的星球嗎?	我覺得太陽世界是不可或缺的,因為沒有它萬物不可生長,我們人類也會餓死。

Class 5/22

Number Name: 林廷伊 Nami



**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 弄衣服 ✓
2. Which technological products run on solar energy? 車 ✓

**Language**

Solar energy	Renewable energy	Solar panels
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Notes: 1. <u>沒錯</u>
2. <u>60000</u>
3. <u>火和油可以用50年 煤可以用115年</u>

Thinking <u>我知道</u>	<u>我想知道</u>	<u>我學到</u>
K what I know	W What I want to know?	L What I learned
<u>我知道太陽會發光發熱。</u>	<u>太陽會不發光嗎? 會啊! 很久以後</u>	<u>跟太陽有等的事。</u>

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? 種植物 ✓
2. Which technological products run on solar energy? 太陽能計算機 ✓

**Language**

Solar energy	Renewable energy	Solar panels
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Notes: <u>Yes</u>
<u>60000 times</u>
<u>50年 115年 115年</u>

**Thinking**

K what I know	W What I want to know?	L What I learned
<u>太陽是烤pizza的溫度的60000倍</u> ✓	<u>我想知道整個太陽系裡面的生命</u> ✓	<u>宇宙好神奇</u> ✓



Observing the sun- Sun and life

Warmer

1. What role does the sun play in our daily lives?
2. Which technological products run on solar energy?

晒衣服  
太陽能手錶  
車

Language

Solar energy	Renewable energy	Solar panels
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3. How many years will it take us to run out of oil and coal?

Notes: Yes!
60000倍
天然氣和石油能用50年, 煤炭能用15年

Thinking

K what I know	W What I want to know?	L What I learned
太陽的能量比水外見 高且各種能量都需 要太陽。	太陽整體的結構。	太陽好深奧而且太 陽的能量好高, 本 以為太陽能能量 很低。

### Observing the sun- Sun and life

**Warmer**

1. What role does the sun play in our daily lives? 種植物, 發電, 光, 熱
2. Which technological products run on solar energy? 路燈

**Language**

Solar energy	Renewable energy	Solar panels
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3. How many years will it take us to run out of oil and coal?

Notes: Yes
6萬倍
煤和油可以用50年, 煤氣可以用115年

**Thinking**

K what I know	W What I want to know?	L What I learned
太陽和影子的關係	太陽為什麼會爆炸	地平線的用途, 太陽的溫度

A++

**Observing the sun- Sun and life**

**Warmer**

1. What role does the sun play in our daily lives? Have fire
2. Which technological products run on solar energy? Car

**Language**

Solar energy	Renewable energy	Solar panels
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1. Do these wind, water and fossil fuels also need solar energy? Yes
2. How many times the temperature of the sun is the temperature of baking pizza? 60,000 Times
3. How many years will it take us to run out of oil and coal? 50 years

<b>Notes:</b>

**Thinking**

K what I know	W What I want to know?	L What I learned
<u>東西會有影子</u>	<u>What is in the earth.</u>	<u>The sun's surface is 5,500 degrees.</u>

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### Observing the sun- Sun and life

**Warmer**

1. What role does the sun play in our daily lives?
2. Which technological products run on solar energy?

發電 太陽能車 太陽能衛星

**Language**

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2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

Notes: Yes
lotto
oil and gas 150 years, coal 115 years

**Thinking**

K 學到 what I know	W 想知道 What I want to know?	L 感想 What I learned
如果沒有太陽就沒 有風水和煤炭 ✓	太陽中心的溫度是 多少度? ✓	太陽系很大。 ✓

A++

Observing the sun- Sun and life

Warmer

1. What role does the sun play in our daily lives? 曬衣服
2. Which technological products run on solar energy? 太陽能車

Language

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Content

Watch a video of What is Solar Energy? (5:07) and discuss the following questions in a small group.

1. Do these wind, water and fossil fuels also need solar energy?
2. How many times the temperature of the sun is the temperature of baking pizza?
3. How many years will it take us to run out of oil and coal?

Notes: Yes!
60000
50 years and 115 years

Thinking

K what I know	W What I want to know?	L What I learned
知道一些關於太陽的一些比較難的詞	如果地球和太陽中間有個超大的石頭會怎樣	學到太陽的溫度、離地球多遠。