

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

火會越來越大,再變小

2. Please write the properties of oxygen.

無色無味

3. Please write one application of oxygen in daily life.

讓人存活

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u>
	(2) <u>oxygen</u>
	(3) <u>jar</u>
	(4) <u>candle</u>
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) <u>air</u>
	(6) <u>barn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣少了

b) Why did the car fall into the hole without oxygen?

因為地殼也有氧

c) Why do we have no water without oxygen?

因為有裡死

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

Unit 2 Burn and rust - Oxygen

Warmer

1. Try to describe the phenomenon(現象) of burning?

蠟燭要熄滅時會先變大再變小, 燃燒三要素 = 可燃物、助燃物、燃點

2. Please write the properties of oxygen.

無色、無味、助燃

3. Please write one application of oxygen in daily life.

人需要呼吸維持生命

Concept

burn (燃燒) ✓	air (空氣) ✓	Oxygen (氧氣) ✓
jar (廣口瓶) ✓	candle (蠟燭) ✓	hydrogen peroxide (雙氧水) ✓

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

Content

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

因為太陽光需要氧氣折射

b) Why did the car fall into the hole without oxygen?

因為地球內也有很多的氧原素

c) Why do we have no water without oxygen?

因為水內有 $\frac{1}{8}$ 是氧氣

Think

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	2	3	4	1

**Unit 2 Burn and rust - Oxygen**

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

Burning is hot.

2. Please write the properties of oxygen.

No color, No smell and help burning.

3. Please write one application of oxygen in daily life.

keep us alive.

**Concept**

burn (燃燒) ✓	air (空氣)	Oxygen (氧氣) ✓
jar (廣口瓶)	candle (蠟燭) ✓	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(4) <u>candle</u> (5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

光需要氧氣折射

b) Why did the car fall into the hole without oxygen?

因為地殼有許多氧

c) Why do we have no water without oxygen?

因為水裡有33%的氧

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>

Unit 2 Burn and rust - Oxygen

Warmer

1. Try to describe the phenomenon (現象) of burning? *蠟燭要火熄滅時會變大再變小。*
2. Please write the properties of oxygen. *無色、無味並且助燃。*
3. Please write one application of oxygen in daily life. *讓人呼吸。*

Concept

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms (金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

Content

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

*空氣的分子減少。*

b) Why did the car fall into the hole without oxygen?

*因為地殼中也有氧原素。*

c) Why do we have no water without oxygen?

*因為水裡有3%的氧。*

Think

Experience: When comparing pork liver (豬肝), enoki mushroom (金針菇), radish (蘿蔔), and manganese dioxide as catalysts (二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	2	3	4	1

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

Burning is hot.

2. Please write the properties of oxygen.

無色、無味、助燃

3. Please write one application of oxygen in daily life.

讓人存活

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣中氧分子減少,光無法折射,所以天空會變暗。

b) Why did the car fall into the hole without oxygen?

地殼裡有很多的氣,沒有氣地就變軟。

c) Why do we have no water without oxygen?

水裡有三分之一的氣,所以沒有空氣五秒,就沒水五秒。

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	2	3	4	1

## Unit 2 Burn and rust - Oxygen

## Warmer

1. Try to describe the phenomenon(現象) of burning?

熄滅時，變大之後越變越小最後熄滅

2. Please write the properties of oxygen.

無色無味，可以助燃

3. Please write one application of oxygen in daily life.

讓生物存活(呼吸)

## Concept

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u>
	(2) <u>Oxygen</u>
	(3) <u>jar</u>
	(4) <u>candle</u>
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) <u>air</u>
	(6) <u>burn</u>

## Content

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

氧氣減少會造成空氣粒子減少

b) Why did the car fall into the hole without oxygen?

地殼中有許多氧元素

c) Why do we have no water without oxygen?

水裡多是氧氣

## Think

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

Have smoke. → Hot.

2. Please write the properties of oxygen.

1. No smell, No color (特色)

2. Help to burn.

3. Please write one application of oxygen in daily life.

Help animals to live.

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>Candle</u>
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

氧氣減少會造成氧氣粒子減少。

b) Why did the car fall into the hole without oxygen?

因為地殼中有很多氧元素

c) Why do we have no water without oxygen?

水裡有是氧氣。

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	2	4	1

**Unit 2 Burn and rust - Oxygen**

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

很熱

2. Please write the properties of oxygen.

是助燃物、無色無味

3. Please write one application of oxygen in daily life.

讓人活下來

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣粒子減少

b) Why did the car fall into the hole without oxygen?

因為地球裡也有氧

c) Why do we have no water without oxygen?

水有三分之一是氧

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	2	4	1



### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

很熱, 不能摸, 熄後冒煙

2. Please write the properties of oxygen.

無色、無味和摸不著

3. Please write one application of oxygen in daily life.

可以助燃、幫植物呼吸

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u> (5) <u>air</u> (6) <u>burn</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣的例子減少, 天空變暗

b) Why did the car fall into the hole without oxygen?

因為地殼中含有許多氧原子

c) Why do we have no water without oxygen?

因為水是由氧氣組成, 所以氧氣消失, 水也會消失

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

Unit 2 Burn and rust - Oxygen

Warmer

1. Try to describe the phenomenon (現象) of burning? 火焰燃燒時, so red and so hot. 火焰快熄滅時, 會燃燒的更旺
2. Please write the properties of oxygen. 無色無味, 助燃。
3. Please write one application of oxygen in daily life. 呼吸 讓人存活。

Concept

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms (金針菇) and shaking it.	(1) hydrogen peroxide (2) Oxygen (3) jar (4) candle (5) air (6) burn
2. __ (4) __s need __ (5) __ to __ (6) __.	

Content

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

- Why does it get dark without oxygen?  
氧氣減少後, 空氣粒子減少, 光無法反射
- Why did the car fall into the hole without oxygen?  
因為地殼沒有45%氧氣。
- Why do we have no water without oxygen?  
因為水裡有1/8是氧氣。

Think

Experience: When comparing pork liver (豬肝), enoki mushroom (金針菇), radish (蘿蔔), and manganese dioxide as catalysts (二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

**Unit 2 Burn and rust - Oxygen**

**Warmer**

1. Try to describe the phenomenon(現象) of burning? 蠟燭要熄滅時會變大再變小, 燃燒三要素: 燃點, 助燃物, 可燃物
2. Please write the properties of oxygen. 無色, 無味, 助燃
3. Please write one application of oxygen in daily life. 呼吸

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

a) Because in the air there are lots of oxygen. If don't have oxygen

b) Why did the car fall into the hole without oxygen? sky will turn the bright sky into

b) Because 地殼的氫原素 will gone, too. dark and gloomy. The air of 粒子 will gone.

c) Why do we have no water without oxygen?

c) Because inside the water have two part like hydrogen and oxygen

Think The Earth will left only desert.

**Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?**

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	2	3	4	1

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

火會越燒越大, 再變小, 再熄滅

2. Please write the properties of oxygen.

no color, no flable, 助燃

3. Please write one application of oxygen in daily life.

讓人存活

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candles</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

因為氧氣的分子變少了

b) Why did the car fall into the hole without oxygen?

因為地殼也有氧元素

c) Why do we have no water without oxygen?

因為水裡有33%都是氧氣

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

**Unit 2 Burn and rust - Oxygen**

**Warmer**

1. Try to describe the phenomenon(現象) of burning?  
火會在快息滅時
2. Please write the properties of oxygen.  
無色無味助火燃
3. Please write one application of oxygen in daily life.  
吹人落苦

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>burn</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(2) <u>Oxygen</u>
	(3) <u>jar</u>
	(4) <u>candle</u>
	(5) <u>air</u>
	(6) <u>hydrogen peroxide</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

- a) Why does it get dark without oxygen?  
will turn the bright sky into dark and gloomy
- b) Why did the car fall into the hole without oxygen?  
空氣的壓力沒了
- c) Why do we have no water without oxygen?  
地會大爆炸

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	<u>7</u>	<u>3</u>	<u>4</u>	<u>1</u>

Unit 2 Burn and rust - Oxygen

Warmer

1. Try to describe the phenomenon (現象) of burning?  
1. When the fire burning, it will be hot.
2. Please write the properties of oxygen.  
no color no smell can 助燃
3. Please write one application of oxygen in daily life.  
1. let the fire burning  
2. Can BBQ

Concept

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms (金針菇) and shaking it.	(1) <u>hydrogen peroxide</u>
	(2) <u>oxygen</u>
	(3) <u>jar</u>
	(4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u>
	(6) <u>burn</u>

Content

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

- a) Why does it get dark without oxygen?  
空氣中的氧粒子減少
- b) Why did the car fall into the hole without oxygen?  
地殼中含有氧元
- c) Why do we have no water without oxygen?  
水是由氧組成

Think

Experience: When comparing pork liver (豬肝), enoki mushroom (金針菇), radish (蘿蔔), and manganese dioxide as catalysts (二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	<u>3</u>	<u>1</u>	<u>4</u>	<u>+</u>

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

熄滅前，火會變大在熄滅

2. Please write the properties of oxygen.

無色無味，且助燃

3. Please write one application of oxygen in daily life.

讓生物存活

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>oxygen</u> (3) <u>jar</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(4) <u>candle</u> (5) <u>air/jar</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣分子減少。

b) Why did the car fall into the hole without oxygen?

因為地殼中含有許多氧原素

c) Why do we have no water without oxygen?

因為水裡有三分之一是氧

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver 豬肝	enoki mushroom 金針菇	radish 蘿蔔	manganese dioxide as catalysts 二氧化錳
Rank	3	2	4	1

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

火一開始很小之後變正常快熄滅時火會變大。

2. Please write the properties of oxygen.

NO 色 NO 味

3. Please write one application of oxygen in daily life.

讓動物存活呼吸。

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣粒子變少。

b) Why did the car fall into the hole without oxygen?

因為地殼裡也有氧原素,沒有的話地殼會鬆動。

c) Why do we have no water without oxygen?

因為水裡有三分之一是氧。

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing	enoki	radish	manganese dioxide as
	pork liver	mushroom		catalysts
Rank	<u>3</u>	<u>1</u>	<u>4</u>	<u>2</u>



## Unit 2 Burn and rust - Oxygen

## Warmer

1. Try to describe the phenomenon(現象) of burning?

The fire will suddenly become big and then

2. Please write the properties of oxygen.

No color, and no smell. Also help to burn.

3. Please write one application of oxygen in daily life.

Let people live and let people breath.

## Concept

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u>
	(2) <u>Oxygen</u>
	(3) <u>jar</u>
	(4) <u>candle</u>
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) <u>air</u>
	(6) <u>burn</u>

## Content

Watch the [Dr Binocs Show](#) video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

Because without oxygen, the 空氣分子 will be lesser and lesser.

b) Why did the car fall into the hole without oxygen?

Because 地殼裡面 have 氧原素.

c) Why do we have no water without oxygen?

Because inside the water 33% are 氧氣

## Think

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	2	3	4	1

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

It is red and orange. 放瓶子時 - 開始火會變大, 之後慢慢

2. Please write the properties(特性) of oxygen.

No color, No smell, can 助燃

熄滅

3. Please write one application of oxygen in daily life.

1. 呼吸 2. 煮食物

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

因為光線回彈的粒子會很少

b) Why did the car fall into the hole without oxygen?

因為地殼含氧

c) Why do we have no water without oxygen?

因為水裡面有氧氣

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

**Unit 2 Burn and rust - Oxygen**

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

火會越來越大,再變小。

2. Please write the properties of oxygen.

NO color, no smell, 助燃。

3. Please write one application of oxygen in daily life.

讓人存活、呼吸。

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u> (4) <u>candle</u> (5) <u>air</u> (6) <u>burn</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

空氣中的粒子減少。

b) Why did the car fall into the hole without oxygen?

因為地殼中含有氧元素。

c) Why do we have no water without oxygen?

因為水裡有33%的氧。

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	<u>3</u>	<u>1</u>	<u>4</u>	<u>2</u>

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?  
The fire will suddenly become big and then.
2. Please write the properties of oxygen.  
No color, and no smell. Also help to burn.
3. Please write one application of oxygen in daily life.  
Let people live and let people breath.

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) hydrogen peroxide (2) oxygen (3) jar (4) candle
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) air (6) burn

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

- a) Why does it get dark without oxygen?  
空氣中的粒子減少
- b) Why did the car fall into the hole without oxygen?  
因為地殼中也含有很多氧元素
- c) Why do we have no water without oxygen?  
因為水裡也有三分之一的氧氣

**Think**

**Experience:** When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	2	3	4	1

**Unit 2 Burn and rust - Oxygen**

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

The fire is hot

2. Please write the properties of oxygen.

NO color. NO smell and help burn.

3. Please write one application of oxygen in daily life.

keep up alive.

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use __ (1) __ to produce __ (2) __ by pouring it into a __ (3) __ containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u>
	(2) <u>oxygen</u>
	(3) <u>jar</u>
	(4) <u>burn</u>
2. __ (4) __s need __ (5) __ to __ (6) __.	(5) <u>air</u>
	(6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

光要 oxygen 折射。

b) Why did the car fall into the hole without oxygen?

因為地殼裡有很多的氧氣。

c) Why do we have no water without oxygen?

因為水裡也有 oxygen.

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

hot ~ 冒煙

2. Please write the properties of oxygen.

無色無味

3. Please write one application of oxygen in daily life.

呼吸

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>Oxygen</u> (3) <u>jar</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(4) <u>candle</u> (5) <u>air</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

光需要O<sub>2</sub> 折射

b) Why did the car fall into the hole without oxygen?

因為地殼有(O<sub>2</sub>)

c) Why do we have no water without oxygen?

水中有 1/3 is O<sub>2</sub> so 當地球沒有氧氣 就沒水

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	2	4	1

Unit 2 Burn and rust - Oxygen

Warmer

1. Try to describe the phenomenon(現象) of burning?

它再息滅時，會變亮

2. Please write the properties of oxygen.

NO COLOR - NO SMELL - 助燃

3. Please write one application of oxygen in daily life.

Let animals live

Concept

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u>
	(2) <u>Oxygen</u>
	(3) <u>jar</u>
	(4) <u>candle</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(5) <u>air</u>
	(6) <u>burn</u>

Content

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

In the air 充滿了 oxygen, 沒了 oxygen 陽光就反射不來。

b) Why did the car fall into the hole without oxygen?

Because 地殼裡 have oxygen.

c) Why do we have no water without oxygen?

Because water consists of two parts of

Think

Experience: When hydrogen comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish	manganese dioxide as catalysts
Rank	3	1	4	2

### Unit 2 Burn and rust - Oxygen

**Warmer**

1. Try to describe the phenomenon(現象) of burning?

火會變大在變小然後熄滅

2. Please write the properties of oxygen.

無色無味助燃

3. Please write one application of oxygen in daily life.

讓呼吸有困難的人用氧氣桶呼吸

**Concept**

burn (燃燒)	air (空氣)	Oxygen (氧氣)
jar (廣口瓶)	candle (蠟燭)	hydrogen peroxide (雙氧水)

1. We can use <u>(1)</u> to produce <u>(2)</u> by pouring it into a <u>(3)</u> containing enoki mushrooms(金針菇) and shaking it.	(1) <u>hydrogen peroxide</u> (2) <u>air</u> (3) <u>jar</u>
2. <u>(4)</u> s need <u>(5)</u> to <u>(6)</u> .	(4) <u>candle</u> (5) <u>Oxygen</u> (6) <u>burn</u>

**Content**

Watch the Dr Binocs Show video about if the world lost oxygen for 5 seconds.

a) Why does it get dark without oxygen?

在空中充滿氧氣，用氧氣的原子反光，光子減少。

b) Why did the car fall into the hole without oxygen?

地殼也有很多氧原子。

c) Why do we have no water without oxygen?

水裡有 33% 的 O<sub>2</sub>

**Think**

Experience: When comparing pork liver(豬肝), enoki mushroom(金針菇), radish(蘿蔔), and manganese dioxide as catalysts(二氧化錳), which one produces oxygen in the best condition?

Sort	comparing pork liver	enoki mushroom	radish <u>蘿</u>	manganese dioxide as catalysts
Rank	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>