

A++

Aqueous solution- electrical conductivity

Warmer 除了 導電

1. In addition to conductivity, what other properties does the aqueous solution have? 酸鹼性、顏色、味道

2. How can we use LED lights?

電腦, 資訊看板, 交通號誌, 監燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

- Paper clips can conduct electricity
- Observe the traffic sign, traffic will be smooth.
- Turn off the switch to form an open circuit.
- This LED design is great.
- Easy to get an electric shock with wet hands.
- Salt water is easy to conduct electricity.

Experiment

title	purpose	equipment
step	result	discuss

<u>step</u>	The <u>process</u> of the experiment.
<u>purpose</u>	What the experiment wants to prove.
<u>result</u>	Something produced by the experiment.
<u>title</u>	About the name of this experiment.
<u>discuss</u>	Description based on the results.
<u>equipment</u>	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
I know a lot of things of LED.	I want to know who 發明 LED light.	I learned our team is very good at English!

兩個外國人
Nide Holonyak Jr.

Aqueous solution- electrical conductivity

Warmer 除了 導電 特性 水溶液

A14

1. In addition to conductivity, what other properties does the aqueous solution have?

酸性、鹼性、顏色、味道

2. How can we use LED lights?

電器、資訊看板、紅綠燈、路燈、家用電器

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
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Experiment

title	purpose	equipment
step	result	discus

Step	The process of the experiment.
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result	Something produced by the experiment.
title	About the name of this experiment.
discus	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
I know that 什麼東西 can conduct electricity. (aqueous solution)	I want to know that 誰 who 發明了 LED light.	I learned that our team is very funny.

google! 😊

Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have? *導電性、顏色、味道*

A++

2. How can we use LED lights?

1. 電器、資訊看板、交通號誌、路燈

Language

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<i>equipment</i>	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
<i>I know aqueous solution can conduct electricity.</i>	<i>I want to know why can aqueous conduct electricity.</i>	<i>I have learn a lot of aqueous solution.</i>

國中會教

Aqueous solution- electrical conductivity

Warmer 除了

1. In addition to conductivity, what other properties does the aqueous solution have?

color make bubble, smell good or bad.

2. How can we use LED lights?

We use LED lights on circuit.

Language

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Experiment

title	purpose	equipment
step	result	discuss

step	The process of the experiment. <i>過程</i>
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
What things can conduct electricity.	I want to know can the people conduct electricity?	The teacher is allwase come to me!



King che wei

5A Class

Number Name: wei-wei

A++

Aqueous solution- electrical conductivity

康哲瑋

Warmer 除了 導電

1. In addition to conductivity, what other properties does the aqueous solution have?

color, make bubble, smell good or bad, alkaline.

2. How can we use LED lights?

we use LED lights on circuit, traffic sign.

Language

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3. Turn off the switch to form an open circuit
4. This LED design is great.
5. Easy to get an Electric shock with wet hands.
6. Salt water is easy to conduct electricity

Experiment

title 名字	purpose	equipment 器材
step	result	discuss 討論

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
I know what is LED, LED can use laser	I want to know why the class room light is	The Teacher is always come to us!!!

electricity, not the LED!
 and I know what is open circuit too!!!!!!
 We should need to change.

A++

Aqueous solution- electrical conductivity

Warmer

導電 特性 水溶液

1. In addition to conductivity, what other properties does the aqueous solution have?

酸鹼性、顏色、味道

2. How can we use LED lights?

電器、資訊看板、交通號誌、路燈

Language

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Experiment

title	purpose 目的	equipment 器材
step 過程	result	discuss

Step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know) I know purpose Chinese, and it is 目的	W(What I want to know) LED How to light? good question!	L(What I have learned) I learned teacher's 笑話, It so fun
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Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have?

導電性 特性 水溶液
 酸鹼性、顏色、味道 ✓

2. How can we use LED lights?

電器、資訊看板、交通號誌 ✓

Language

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Experiment

title	purpose 目的地	equipment 器材
step 日期	result	discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
I know circuit English, and I know purpose English.	I want to know aqueous English.	I learned teacher 突語. I am so happy.

Aqueous solution- electrical conductivity

Warmer

除了

導電

特性

水溶液

A++

1. In addition to conductivity, what other properties does the aqueous solution have? 另外觀見比較不一樣

2. How can we use LED lights?

在紅綠燈、電器、資訊看板、路燈

Language

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Experiment

title	purpose	equipment
step	result	discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
我知到了如何測驗酸鹼性。	我還想知道酸鹼怎麼來的	疏通齊有多危險

↑
解離心
國中會教呀!

Aqueous solution- electrical conductivity

Warmer

除了 導電 特性 水溶液

A++

1. In addition to conductivity, what other properties does the aqueous solution have?

酸鹼性 顏色 味道 外觀

2. How can we use LED lights?

電器 計分板 交通號誌 路燈

Language

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- Turn off the switch to form an open circuit.
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- Easy to get an Electric shock with wet hands.
- Salt water is easy to conduct electricity.

Experiment

title	purpose <u>目的</u>	equipment
step	result	discuss

stop	The process of the experiment.
purpose	What the experiment wants to prove. <u>證明</u>
result	Something produced by the experiment.
title	About the name of this experiment. <u>結果</u>
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
<u>我學到如何測酸鹼</u>	<u>我想知道號誌的英文</u> <u>sign?</u>	<u>老師什麼都用電腦查</u> <u>方便呀!</u>

A+

Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have?

除了導電 特性 水溶液
 酸鹼性、顏色、味道

2. How can we use LED lights?

LED 電器 - information boll 資訊看板 traffic light 紅綠燈 路燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

1. Paper clips can circuit conduct electricity
2. Observe the LED traffic sign traffic will be smooth.
3. Turn off the switch to form an open circuit
4. This Traffic sign design is great. LED
5. Easy to get an Electric shock with wet hands.
6. Salt water is easy to conduct electricity



Experiment

title	purpose	equipment
step 地點	result	discuss

steps	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
I know about all aqueous solution	I want to know all about water	老師玩藥水, 結果手破了。

A111

Aqueous solution- electrical conductivity

Warmer 除了導電以外,還有什麼特性?(水溶液)

1. In addition to conductivity, what other properties does the aqueous solution have? 酸鹼性、外關、味道

2. How can we use LED lights?
我們要用LED燈?

電器上、交通號誌、路燈、家電用品、資訊看板

Language

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Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

- Paper clips can conduct electricity
- Observe the Traffic sign, traffic will be smooth.
- Turn off the switch to form an open circuit.
- This LED design is great.
- Easy to get an electric shock with wet hands.
- Salt water is easy to conduct electricity.

Experiment

title	purpose 步變	equipment
step	result	discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know) 水液會导电。 答	W(What I want to know) 為什麼小鳥站在電線桿上不會觸電? 改通路。	L(What I have learned) 石蕊試紙一直掉到桌上。
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AAA

Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have?

酸性、鹼性

2. How can we use LED lights?

電器、資訊看板、交通號誌、路火燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

1. Paper clips can conduct electricity
2. Observe the Traffic sign, traffic will be smooth.
3. Turn off the switch to form an Open circuit.
4. This LED design is great.
5. Easy to get an electric shock with wet hands.
6. Salt water is easy to conduct electricity.

Experiment

title	purpose <u>過程</u>	equipment
step	result	discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the <u>experiment</u> . <u>實驗</u>

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
酸鹼總會發熱!	水為什麼會導電呢? 國中會教吧!	為了拔石蕊試紙大吵一架!

Aqueous solution- electrical conductivity

Warmer

除了導電 特性 水溶液

1. In addition to conductivity, what other properties does the aqueous solution have?

The alkaline and acidic properties, the smell, the color.

2. How can we use LED lights?

Electricity things, trafical lights, information wall, road lights.

Language

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Experiment

title	purpose	equipment
step	result	discuss

discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
I know the LED lights in the world are much and much.	I want to know any aqueous solution can conduct electricity.	I learned how wet hands can be electric shock. It's very cool, but it's dangerous.

危險

余慕華

A+++

Aqueous solution- electrical conductivity

Warmer 除水外導電 特性 水溶液

1. In addition to conductivity, what other properties does the aqueous solution have? 酸鹼、外觀、顏色、味道

2. How can we use LED lights? 怎麼用LED

使用在電器、資訊看板、紅綠燈、路燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

- 詞點文針
- Paper clips can conduct electricity.
 - Observe the Traffic sign traffic will be smooth.
 - Turn off the switch to form an open circuit.
 - This LED design is great.
 - Easy to get an electric shock with wet hands.
 - Salt water is easy to conduct electricity.

Experiment

title	purpose	equipment
step	result	discuss

le
step

discuss	The process of the experiment.
purpose	What the experiment wants to prove.
result title	Something produced by the experiment.
step title	About the name of this experiment.
test discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
<u>除了糖水都阿以觸電</u>	<u>為什麼鳥站在電線上不會觸電</u> <u>因為泛過路</u>	<u>高蕊好難挾</u>

Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have ?

2. How can we use LED lights?

燈泡看板 ✓

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

1. Paper clips can conduct electricity ✓
2. Observe the Traffic sign, traffic will be smooth. ✓
3. Turn off the switch to form an open circuit. ✓
4. This LED design is great. ✓
5. Easy to get an electric shock with wet hands. ✓
6. Salt water is easy to conduct electricity. ✓

Experiment

title	purpose	equipment
step	result	discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
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Thinking

K(What I know). 我什麼都不知道 那要加油呀!	W(What I want to know) 我想知道為什麼PH值 只有到14而已。	L(What I have learned) 石蕊試紙很難夾
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Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have?

酸性、外觀、味道

2. How can we use LED lights?

電器、資訊看板、交通號誌、路燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
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- Turn off the switch to form an open circuit.
- This LED design is great.
- Easy to get an Electric shock with wet hands.
- Salt water is easy to Conduct electricity.

Experiment

title <u>水</u>	purpose <u>目的</u>	equipment <u>器材</u>
step <u>步驟</u>	result <u>結果</u>	discuss <u>討論</u>

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
用什麼測酸性	No	No

ATT

Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have?

冷了
導電

顏色、酸鹼性、水溶液的外觀和味道

2. How can we use LED lights?

使用電燈，用火車記十板，交通號誌，路燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

1. Paper clips can conduct electricity.
2. Observe the traffic sign, traffic will be smooth.
3. Turn off the switch to form an open circuit.
4. This LED design is great.
5. Easy to get an Electric shock with wet hands.
6. Salt water is easy to conduct circuit.

Experiment

title 標題	purpose 目的	equipment 器材
step 討論	result 結果	discuss

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
我學到了LED燈最有意思的事導電	下次可以學到更多的課程	我覺得老師很認真

Aqueous solution- electrical conductivity

Warmer

1. In addition to conductivity, what other properties does the aqueous solution have ?

味道 酸性

2. How can we use LED lights?

Traffic sign 路燈

Language

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Experiment

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step 步驟	result 結果	discuss 討論

step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
我學到怎麼測 酸性	No	我覺得很可笑

A++

Aqueous solution- electrical conductivity

Warmer 除了 導電 特性 水溶液

1. In addition to conductivity, what other properties does the aqueous solution have?

特性：酸鹼性。看：顏色的特性 聞：味道不一樣的特性。
外觀的不一樣

2. How can we use LED lights? (我們如何使用LED燈)
①用在電器上 ②在火車看版，也就是資訊看版。③在紅綠燈上也能看到LED燈的應用 ④路燈上也可能看到LED燈。

Language

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title 標題	purpose 目的	equipment 器材
step 步驟	result 結果	discuss 討論

Step	The process of the experiment.
purpose	What the experiment wants to prove.
result	Something produced by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
器材	Things needed for the experiment.

Thinking

發生趣事

K(What I know) 我知道的： 如何測水溶液的酸鹼性。水溶液的導電性，LED燈的應用。	W(What I want to know) 我想知道： 水溶的導電性可以發電嗎？ 可以啊！	L(What I have learned) 沒有
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對微弱

A++

Aqueous solution- electrical conductivity

Warmer

1. (In addition to 除了 conductivity), what other 特性 properties does the aqueous solution have?

Have color, 氣味, acid or 鹼

2. How can we use LED lights?

We can use with 電器, 資訊看板, Traffic sign, road lights.

Language

LED(發光二極體) ✓	circuit(電路)	conduct electricity(導電) ✓
Traffic sign(交通號誌) ✓	Electric shock(觸電) ✓	open circuit (斷路) ✓



1. Paper clips can conduct electricity.
2. Observe the traffic sign, traffic will be smooth.
3. Turn off the switch to form an open circuit.
4. This LED design is great.
5. Easy to get an Electric shock with wet hands.
6. Salt water is easy to conduct electricity.

Experiment

title ✓	purpose <u>目的</u>	equipment ✓
step	result ✓	discuss <u>討論</u>

<u>step</u>	<u>過程</u> The process of the experiment.
<u>purpose</u>	What the experiment wants to prove.
<u>results</u>	Something produced by the experiment.
<u>title</u>	About the name of this experiment.
<u>discuss</u>	Description based on the results.
<u>equipment</u>	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
<p>Aqueous can conductivity ⚡ <u>solution</u> soda is acid aqueous solution </p>	<p>當人們躺下時,胃酸會不會流到喉嚨? 不會噴!</p>	<p>在討論時,我不知道的字會用猜的,猜對會很開心! </p>

A++

Aqueous solution- electrical conductivity

Warmer 除了

導電

特性

1. In addition to conductivity, what other properties does the aqueous solution have? 酒精鹼性, 外觀, 味道

2. How can we use LED lights?

電器上, 資訊看板, 交通號誌, 路火燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

- Paper clips can conduct electricity.
- Observe the Traffic sign, traffic will be smooth.
- Turn off the switch to form an open circuit.
- This LED design is great.
- Easy to get an Electric shock with wet hands.
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Experiment

title	purpose	equipment
step	result	discuss

step	The process of the experiment.
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Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
電路	沒有	老師好像變瘦了!

A++

Aqueous solution- electrical conductivity

Warmer

除了 ^{導電} 特性 ^{水溶液}

1. In addition to conductivity, what other properties does the aqueous solution have?

酸鹼、外觀、氣味

2. How can we use LED lights?

電器、資訊看板、交通號誌、路lights.

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
Traffic sign(交通號誌)	Electric shock(觸電)	open circuit (斷路)

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Experiment

title 標題	purpose 目的	equipment
step	result	discuss 討論

step	The <u>process</u> of the experiment.
purpose	What the experiment wants to prove.
result	Something <u>produced</u> by the experiment.
title	About the name of this experiment.
discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
Aqueous solution can conductivity!!!	無	老師心情變好了!

Aqueous solution- electrical conductivity

Warmer

除

特性

1. In addition to conductivity, what other properties does the aqueous solution

have?
外似味道

2. How can we use LED lights?

電器上記分板 交通號誌 路燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
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Experiment

title	purpose <u>目的</u>	equipment
step	result	discuss

<u>step</u>	The process of the experiment.
<u>purpose</u>	What the experiment wants to prove.
<u>result</u>	Something produced by the experiment.
<u>title</u>	About the name of this experiment.
<u>drawings</u>	Description based on the results.
<u>equipment</u>	Things needed for the experiment.

Thinking

K(What I know) 我知道 LED只是簡寫	W(What I want to know) 如果LED火燈 能用水液·電 非LED可以嗎	L(What I have learned) 我發現 — google會直 話
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Aqueous solution- electrical conductivity

Warmer

除了導電 特小生

1. In addition to conductivity, what other properties does the aqueous solution have?

可以解決問題(當清潔劑) X

2. How can we use LED lights?

各種電器、交通號誌、資訊看板、路燈

Language

LED(發光二極體)	circuit(電路)	conduct electricity(導電)
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Experiment

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step	The process of the experiment.
purpose	What the experiment wants to prove.
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discuss	Description based on the results.
equipment	Things needed for the experiment.

Thinking

K(What I know)	W(What I want to know)	L(What I have learned)
水管劑很危險	被 $NaOH$ 沾到 燒起來的 感覺 有多久	全都很好笑

很久