

Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

音色

2. How to make the sound higher or lower?

音調

3. The effect of adding speakers is for?

增加音量

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
-------------------	------------	----------------

1. volume : About the loudness or smallness of the sound.

2. tone quality : Similar to various sounds.

3. pitch : About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.

The other side is the same, finished.



a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

⊖ No, 針 is good

c) Does the size of the paper cup have an effect? Is there a better material?

⊖ Yes, ⊖ No

Think

Watch the video about musical instruments.

1. 森の木琴[https://youtu.be/C_CDLTJD4M]
2. the Landfill Harmonic Orchestra[<https://youtu.be/UJrSUHK9Luw>]
3. Landfill Harmonic[<https://youtu.be/ffy7gyRe9PQ>]
4. 破銅爛鐵打擊樂(廚房篇)[https://youtu.be/cg4g7sr_LWQ]

Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

2. How to make the sound higher or lower?
tone quality

3. The effect of adding speakers is for?
pitch

Concept *add volume*

tone quality (音色)	pitch (音調)	volume (音量/響度)
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1. volume : About the loudness or smallness of the sound.

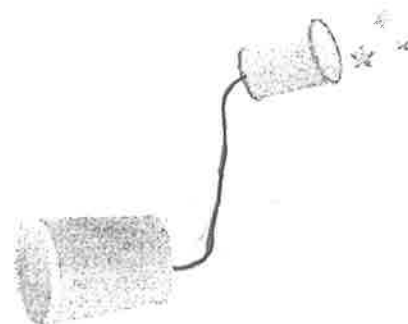
2. tone quality : Similar to various sounds.

3. pitch : About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.



The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

不粗不細，因為太粗洞過不去、太細會斷

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

牙籤較好，吸管太粗，其時用針線

c) Does the size of the paper cup have an effect? Is there a better material?

越小越好，越好配帶 更好。

Think

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Warmer

1. Everyone makes a different sound, what do we call it?

2. How to ^{tone quality} make the sound higher or lower?

pitch

3. The effect of adding speakers is for?

加聲

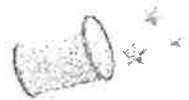
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a) Does the thickness of the cotton thread have an effect? Is there a better material?

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

橡膠最好
不會牙籤就很好了。

c) Does the size of the paper cup have an effect? Is there a better material?

Think

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tone quality.

2. How to make the sound higher or lower?

pitch.

3. The effect of adding speakers is for?

bigger volume

Concept

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes!

Yes!

thinner

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

針

No

c) Does the size of the paper cup have an effect? Is there a better material?

Yes

smaller

Think

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We call it tone quality.

2. How to make the sound higher or lower?

pitch

3. The effect of adding speakers is for?

sound 變大。
volume

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
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1. volume: About the loudness or smallness of the sound.

大聲 小聲

2. tone quality: Similar to various sounds.

3. pitch: About the high or low sound.



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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes

有, 塑膠

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

不好, 吸管太大了

也許都不要用

c) Does the size of the paper cup have an effect? Is there a better material?

聲音會變大

可能鐵做的, 會更大聲

Think

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Warmer

1. Everyone makes a different sound, what do we call it?

tone quality

2. How to make the sound higher or lower?

pitch

3. The effect of adding speakers is for?

放大 volume

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

綿線是最好的

沒有

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material? 直接打結比較好

c) Does the size of the paper cup have an effect? Is there a better material?

可以用塑膠杯

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1. Everyone makes a different sound, what do we call it?

音色 tone quality

2. How to make the sound higher or lower?

Pitch

3. The effect of adding speakers is for?

bigger volume

Concept

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

A: Yes
越細越好

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

我覺得牙籤比較好

c) Does the size of the paper cup have an effect? Is there a better material?

紙杯大小剛好就好

Think

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tone quality

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pitch

3. The effect of adding speakers is for?

make voice louder.

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Making Easy Microphone

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes, the thickness line is better.

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

tape

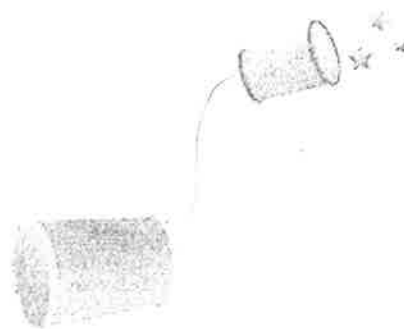
c) Does the size of the paper cup have an effect? Is there a better material?

Yes, the sound will not same.

Think

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Warmer

1. Everyone makes a different sound, what do we call it? *tone quality*
2. How to make the sound higher or lower? *pitch*
3. The effect of adding speakers is for? *Make the sound be bigger*

Concept

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

(1) No, it doesn't. (2) No, I think not.

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

(1) Yes, I think can. (2) I think we can not use any toothpicks or straws.

c) Does the size of the paper cup have an effect? Is there a better material?

(1) Yes, I think the big cup will be louder.

(2) No, I think not.

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We call it tone quality.

2. How to make the sound higher or lower?

pitch

3. The effect of adding speakers is for?

Bigger volume.

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

有越細越好，因為較好綁上去。

沒有。

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

可以。

不用東西，因為聲波可以直接傳到棉線。

c) Does the size of the paper cup have an effect? Is there a better material?

有，越大越好，因為可以產生更大的共鳴。

滿。

Think

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Unit 4 Sounds and instruments - Musical instrument sound**Warmer**

1. Everyone makes a different sound, what do we call it? *we call it tone quality*
2. How to make the sound higher or lower? *pitch*
3. The effect of adding speakers is for?

*增加音量***Concept**

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Content**Making Easy Microphone**

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The other side is the same, finished.

- a) Does the thickness of the cotton thread have an effect? Is there a better material?

會, 太爛聲音小了

- b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

竹籤

- c) Does the size of the paper cup have an effect? Is there a better material?

*越大越好, 聲音越大***Think**

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加大音量

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The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

有 細的因為好貼!

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

沒有 因為牙籤比較尖好打洞!

c) Does the size of the paper cup have an effect? Is there a better material?

沒有 我覺得紙杯好因為好打洞!

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a) Does the thickness of the cotton thread have an effect? Is there a better material?

①有 ②沒有

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

①好, 我覺得還是牙籤比較好, 用吸管應該會比較好

c) Does the size of the paper cup have an effect? Is there a better material?

①鐵杯因為用鐵做的, 聲音比較大

Think

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②沒有

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a) Does the thickness of the cotton thread have an effect? Is there a better material?

會, 因為會影響聲音傳送的速率

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

都不加

c) Does the size of the paper cup have an effect? Is there a better material?

應該會影響聲音的大小

Think

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加大 volume

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a) Does the thickness of the cotton thread have an effect? Is there a better material?

棉線最好

沒有

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

都不加,直接打結最好

c) Does the size of the paper cup have an effect? Is there a better material?

改用塑膠杯

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2. How to make the sound higher or lower? *pitch*
3. The effect of adding speakers is for? *bigger volume*

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a) Does the thickness of the cotton thread have an effect? Is there a better material?

細 > 跑的比較快

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

有可能 月琴帶

c) Does the size of the paper cup have an effect? Is there a better material?

大

應該都差不多

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2. How to make the sound higher or lower? *pitch*
3. The effect of adding speakers is for? *放大音量*

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- b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?
- c) Does the size of the paper cup have an effect? Is there a better material?

*細的線更
比較好
不好 因為
管子掉下來*

剛剛好 不大不小。

Think

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3. Landfill Harmonic[<https://youtu.be/ffy7gyRe9PQ>]
4. 破銅爛鐵打擊樂(廚房篇)[https://youtu.be/cg4g7sr_LWQ]

Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

音色

2. How to make the sound higher or lower?

音調

3. The effect of adding speakers is for?

音箱放大音量

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
-------------------	------------	----------------

1. volume : About the loudness or smallness of the sound.

2. tone quality: Similar to various sounds.

3. pitch : About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.

The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

越細越好。金線

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

會。我覺得綿綿就好。

c) Does the size of the paper cup have an effect? Is there a better material?

有。紙杯大小剛好就好。

Think

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Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

tone quality.

2. How to make the sound higher or lower?

pitch.

3. The effect of adding speakers is for?

音box、放big volume.

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
-------------------	------------	----------------

1. volume : About the loudness or smallness of the sound.

2. pitch : Similar to various sounds.

3. tone quality : About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.

The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes 沒有(我覺得)

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

如果把牙籤換成吸管不會有用,因為吸管不夠尖,可以用美工刀。

c) Does the size of the paper cup have an effect? Is there a better material?

yes, 不會

因量不同

Think

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Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

tone quality

2. How to make the sound higher or lower?

pitch

3. The effect of adding speakers is for?

That the volume louder.

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
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1. volume: About the loudness or smallness of the sound.

2. tone quality: Similar to various sounds.

3. pitch: About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.

The other side is the same, finished.

- a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes, thick cotton will be slower.

- b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

Yes, I think straws aren't useful.

I think I don't need anything.

- c) Does the size of the paper cup have an effect? Is there a better material?

No. It doesn't effect anything.

I think they're all the same.

Think

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Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

Tone quality.

2. How to make the sound higher or lower?

Pitch.

3. The effect of adding speakers is for?

Make bigger volume.

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
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1. Volume : About the loudness or smallness of the sound.

2. Tone quality : Similar to various sounds.

3. Pitch : About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.

The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

Yes, 他的 sound 傳的 faster.

b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

差不多。we can use paper.

c) Does the size of the paper cup have an effect? Is there a better material?

No, we can use golden cup.

Think

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Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it? 音色
2. How to make the sound higher or lower? pitch
3. The effect of adding speakers is for? bigger volume

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
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1. Volume: About the loudness or smallness of the sound.
2. tone quality: Similar to various sounds.
3. pitch: About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick(牙籤) to secure them.

The other side is the same, finished.

- a) Does the thickness of the cotton thread have an effect? Is there a better material?

有 我覺得細的可能傳的比較快

- b) Is there any effect of replacing toothpicks(牙籤) with straws(吸管)? Is there a better material?

我覺得打結比較好因為少一個材質也可以有同

- c) Does the size of the paper cup have an effect? Is there a better material?

我覺得不大不小最好因為大大不好拿

樣的效果
太小可能不好停

Think

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Unit 4 Sounds and instruments - Musical instrument sound

Warmer

1. Everyone makes a different sound, what do we call it?

We call it tone quality

2. How to make the sound higher or lower?

use pitch

3. The effect of adding speakers is for?

用音箱

Concept

tone quality (音色)	pitch (音調)	volume (音量/響度)
-------------------	------------	----------------

1. volume: About the ~~loudness~~ or smallness of the sound.

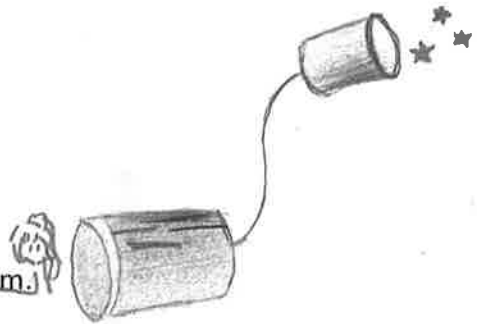
2. tone quality: Similar to various sounds.

3. pitch: About the high or low sound.

Content

Making Easy Microphone

Method: Thread the cotton thread through the drilled paper cups and tie half a toothpick (牙籤) to secure them.



The other side is the same, finished.

a) Does the thickness of the cotton thread have an effect? Is there a better material?

b) Is there any effect of replading toothpicks (牙籤) with straws (吸管)? Is there a better material? I think don't use any / this is better.

c) Does the size of the paper cup have an effect? Is there a better material? Yes, I think can

No, I think the big cup will not be louder. I think not.

Think

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