

空氣

air

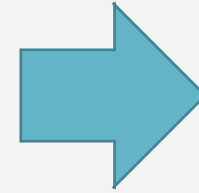


DG 雙語教學團隊

•Q: Where is air?



Students say :



Teacher says :

classroom

sky

ball

earth

house

balloon

park



here
there

Air is everywhere.



•Q: Can you **see** the air ?

No, I can **not** .



•Q: Can you **feel** the air ?



No, I can **not** .



still air



Yes, I can .



moving air



•Q: Can you touch the air ?

No, I can not .



•Q: Can you **catch** the air ?



No, I can **not**
by hands.

Yes, I can
with bags.





提出
問題



•Q : How can we **catch the air**?

With a bag.

•Q : Who can **catch the air**?





提出
問題

• Q : Is anything inside in the bag?

Yes, air is.



它鼓鼓的。





提出
問題



• Q : What will happen?



1. 它涼涼的。
2. 有空氣跑
出來



•Q: What is different?



in the air .

- I can **not** see air.
- I can **not** feel air.
- I can **not** hear air.
- I can **not** touch air.

in the container .

- I can **see** air.(鼓鼓的)
- I can **feel** air.(moving air)
- I can **hear** air.(嗚嗚嗚)
- I can **touch** air.





提出
問題

• Q : What will happen in the water?



1. 它有氣泡.
2. 袋子變小
3. 有啵啵啵
的聲音



When I put air in the balloon, what shape is it ?



1. long.
2. rounded
3. heart

Nothing is in the balloon .

- **What will happen?**

long-
shaped



變鼓鼓的，變長。

• What will happen?

rounded
-shaped



變鼓鼓的，變大。



- **What will happen?**

**heart-
shaped**



Air has no fixed shape.

What is inside the balloon? It is air.

Does air have shape in the air ?

No.

Does air have shape in the container ?

Yes.

Air has no fixed shape.

- **Does air take up space?**
- What is inside the cup?(air)
- Air is no color, water is blue.
take turns to see.



- **Air** is in the cup.

- **Does air take up space?**
- What is inside the cup?
- Air is no color, water is blue.



take turns to see.



- **Water** is in the cup.

- **Let me sum up.**
- Air is everywhere.
- Air has **no shape**.
- Air has shape **with containers**.
- Air **takes up space**.

一、怎麼樣知道塑膠袋裡裝了空氣？

探索目的 了解空氣在我們周圍。

實驗方法 來回揮動塑膠袋，捏住塑膠袋袋口擠壓，再放入水中擠壓，觀察現象。

實驗結果 請將結果記錄下來。

動作	觀察到的現象
1. 捏住塑膠袋袋口，用點力擠壓塑膠袋。	<input type="checkbox"/> ① 塑膠袋鼓鼓的 <input type="checkbox"/> ② 其他： _____
2. 放入水中後，稍微鬆開袋口，並擠壓塑膠袋。	<input type="checkbox"/> ① 水跑進塑膠袋裡了 <input type="checkbox"/> ② 有小氣泡從塑膠袋袋口跑出來

● 根據實驗結果，塑膠袋裡裝了_____，它看不見也摸不著，充滿在我們周圍。

- Take out the workbook.
- Guide
- Demonstration

教學時間：**40**分