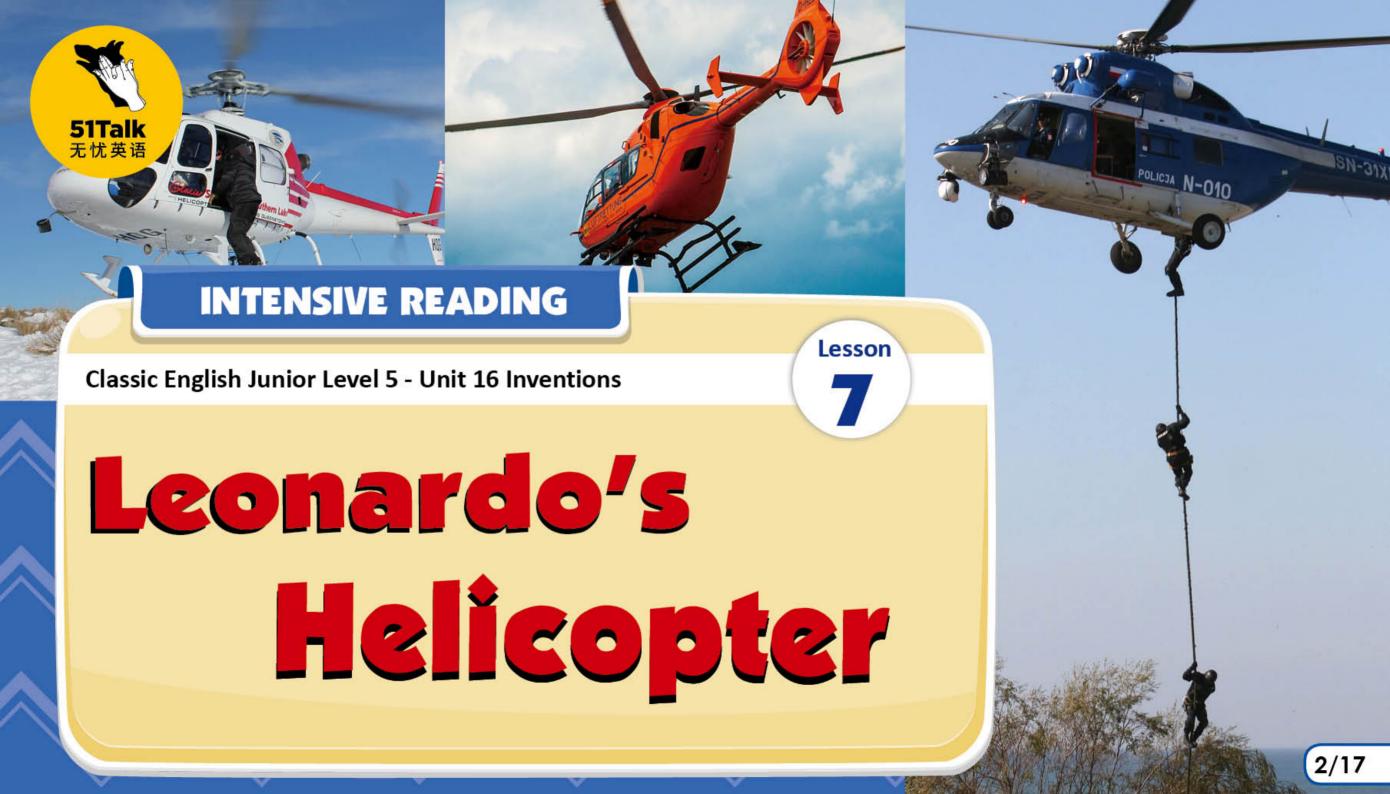


ARS YOU RECOYS

Listen to me. Eyes on me.



Lesson Structure

Learning Objective Warm-up **Comprehension Skill Intensive Reading Writing Project** Wrap-up





Review the article called

Leonardo's Helicopter

Learn the comprehension skill

Fact or opinion



Warm-up 02:00

Look and say.



Science Research



Fire Control



First Aid in an Emergency



What other ways can helicopters be used?





Comprehension Skill 102:00





A statement of fact can be proven true or false.

Opinion

A statement of opinion tells someone's ideas or feelings.

Examples:

1. George Washington was the first US president. (Fact)

2. George Washington was a great president. (Opinion)



03:00

Read the passage and learn the phrase.



Leonardo da Vinci watched an eagle fly through the air. (
He carefully **observed** the shape of the eagle's wings
and the movement of its muscles. He took detailed notes
about the **air currents**.

Suddenly he realized that the eagle's wings pressed down against the air and the air pressed back up against the wings. This air pressure was the secret to flight! And if an eagle could fly, he thought, so could a person.

air current

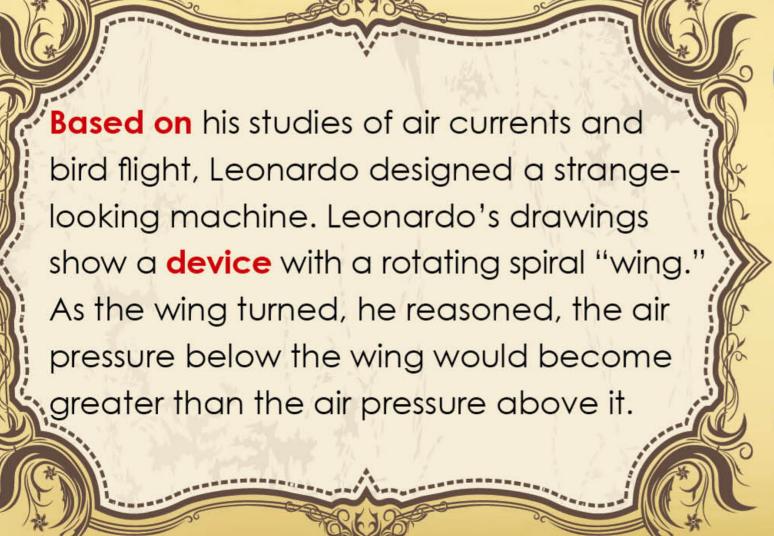
air moving from an area of high pressure to an area of low pressure

e.g. Eagles use warm air currents to lift them high in the sky.



03:00

Read the passage and do the activities.





Which one of the following is Leonardo's device?











What is the theory behind Leonardo's machine?



02:00

Read the passage and answer the question.

- 1. This difference in pressure would lift the machine into the air, just as the pressure against the eagle's wings lifted the bird.
- 2. <u>Leonardo called his flying</u>
 <u>machine an "ariel screw."</u> As
 good as the idea was, there
 were two **major** problems with it.



Are the underlined sentences facts or opinions?







Read the passage and learn the grammar.

First, the combustion engine hadn't been invented yet, and there was nothing in existence that was powerful enough to turn the large screwlike wing.

Also, Leonardo would have had to rely on wood, rope, and cloth to build his machine. These materials were far too heavy to make a device that could fly.

Grammar

rely on/upon sb/sth to do

to trust or depend on someone or something to do what you need or expect them to do

e.g.

Nowadays we often rely on computers to help us do difficult tasks.



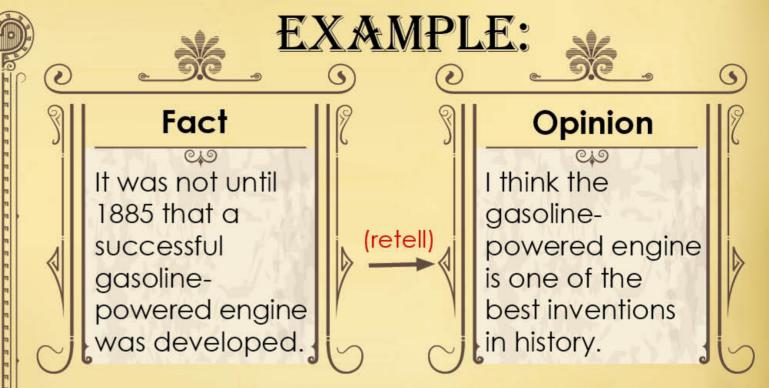
Can you make a sentence with "rely on ... to ..."?



Read the passage and do the activity.

It was not until 1885 that a successful gasoline-powered engine was developed, and in the 1930s helicopter flight finally became practical and safe.

But it was an artist on a sunny hill in Italy four hundred years before who first dreamed that it could happen.



Please retell the underlined sentence following the example.







Writing Project—Preparation 103:00

Talk to the teacher about Leonardo da Vinci.

How did Leonardo find the secret to flight?

What device did he design? What was it like?

What do you think of Leonardo?



Не ...

..

..





Writing Project



Write down some key words.



Write a passage after class on your worksheet.



Wrap-up 01:00



Intensive Reading

Leonardo's Helicopter

Comprehension Skill

Fact or opinion



