

Back to the Drawing Board



BUILD BACKGROUND
Unit 1, Grade 6

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“Back to the Drawing Board”
Word Knowledge

LINE 1: right write tail tale
 plane plain air heir

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“Back to the Drawing Board”
Word Knowledge

LINE 1: right write tail tale
 plane plain air heir

LINE 2: catastrophe photo telegraph biography

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“Back to the Drawing Board”
Word Knowledge

SENTENCE 1: The battered shed at the launching site was a terrible sight.

SENTENCE 2: John Daniels took a photograph just as the Flyer left the ground.

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“Back to the Drawing Board”
Word Knowledge

SENTENCE 1: The battered shed at the launching site was a terrible sight.

SENTENCE 2: John Daniels took a photograph just as the Flyer left the ground.

SENTENCE 3: The Flyer roared down the track.

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“Back to the Drawing Board”
Word Knowledge

SENTENCE 1: The battered shed at the launching site was a terrible sight.

SENTENCE 2: John Daniels took a photograph just as the Flyer left the ground.


SENTENCE 3: The Flyer roared down the track.

SENTENCE 4: Their performance showed improvement.

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“Back to the Drawing Board”
Activate Prior Knowledge



What do you know about Wilbur and Orville Wright and the invention of the airplane?



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“Back to the Drawing Board”
Activate Prior Knowledge

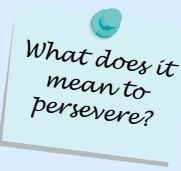
- What are the goals that the other characters in the *Perseverance* selections have achieved?
- What are examples of people who have persevered to make breakthroughs in science or technology?



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“Back to the Drawing Board”
Activate Prior Knowledge


- Check the Concept/Question Board to remind yourself about the perseverance of outstanding individuals.
- Do you see any questions that you think this story might answer?



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“Back to the Drawing Board”
Background Information


- “Back to the Drawing Board” like “A Picture Book of Jesse Owens” is a biography.
- “Back to the Drawing Board” covers a few years of the Wrights’ lives.



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“Back to the Drawing Board”
Background Information

- Wilbur Wright was four years older than his brother Orville.
- They grew up in Dayton, Ohio.
- The Wright Brothers didn’t have special training in engineering, but they were both mechanically inclined.





Henry Ford with Orville Wright in front of the bicycle shop originally in Dayton, Ohio where the Wrights constructed the first flying machine.

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“Back to the Drawing Board”
Background Information


Aviation has come a long way since the Wright brothers’ first flight, but modern airplanes are built upon the same principles that the Wrights tested with the flyer.



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“Back to the Drawing Board”
Background Information

- “Back to the Drawing Board” is a **biography**.
- What do we already know about **biography**?



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“Back to the Drawing Board”
Background Information

Elements of Biography:

- A biography is written about a real person’s life written by someone else.
- A biography contains important information about a person’s life. The stories include details about how the person talks, feels, and thinks about things.

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“Back to the Drawing Board”
Background Information


Elements of Biography:

- A biography may span a person’s life, or it may tell about only an important part of the person’s life. An account that spans a person’s life is almost always told in chronological order.
- A biography often focuses on the most important events in a person’s life. The author usually describes the person’s achievements and talents.

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“Back to the Drawing Board”
Browse

- Read aloud the title and the names of the author and illustrator.
- Quickly look over the first page or two of the selection.
- What do you think this story might have to do with *perseverance*?




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“Back to the Drawing Board”
Browse

Look for Clues

- What unfamiliar words or long sentences did you notice while browsing?
- What clues did you find to help you understand the selection?




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“Back to the Drawing Board”
Browse

Focus Questions


- Read the Focus Questions before you read.
- Keep these questions in mind as you read.



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“Back to the Drawing Board”
Set Purposes

- As you read, think about what motivates the Wright Brothers’ perseverance, and how their partnership and the cooperation of others affects their ability to keep trying.
- Think about how the theme of the story piques your curiosity or connects you to your own interests.



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“Back to the Drawing Board”
Vocabulary

- calculations
- erratic
- elated
- descent
- stabilize
- thrust

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“Back to the Drawing Board”
Vocabulary


calculations

- “We saw that the calculations upon which all flying machines had been based were unreliable, and that all were simply groping in the dark.”

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“Back to the Drawing Board”
Vocabulary
calculations

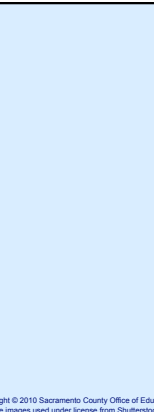
- “We saw that the **calculations** upon which all flying machines had been based were unreliable, and that all were simply groping in the dark.”
- Bridget made careful measurements and **calculations** with a ruler before she built her model airplane.



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“Back to the Drawing Board”
Vocabulary
erratic


- “The course of the flight up and down was exceedingly **erratic**,” wrote Orville, “partly due to the irregularity of the air, and partly to lack of experience in handling this machine.”



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“Back to the Drawing Board”
Vocabulary
erratic

- “The course of the flight up and down was exceedingly **erratic**,” wrote Orville, “partly due to the irregularity of the air, and partly to lack of experience in handling this machine.”
- The weather last week was so **erratic** that I brought my umbrella to school every day but needed it only twice.



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“Back to the Drawing Board”
Vocabulary
elated

- But the Wright brothers were **elated**.

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“Back to the Drawing Board”
Vocabulary
elated

- But the Wright brothers were **elated**.
- The soccer players were **elated** when their team won the state championship.



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“Back to the Drawing Board”
Vocabulary
descent


- “By this time I found suddenly that I was making a **descent** backwards toward the low wing, from a height of 25 or 30 feet.”

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“Back to the Drawing Board”
Vocabulary

descent

- “By this time I found suddenly that I was making a **descent** backwards toward the low wing, from a height of 25 or 30 feet.”
- The submarine began its slow **descent** to the ocean floor.




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“Back to the Drawing Board”
Vocabulary

stabilize

- For the first time, the new glider had a tail- two 6-foot-high vertical fins, designed to help **stabilize** the machine during turns.




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“Back to the Drawing Board”
Vocabulary

stabilize

- For the first time, the new glider had a tail- two 6-foot-high vertical fins, designed to help **stabilize** the machine during turns.
- The pilot’s skills enabled her to **stabilize** the spiraling plane quickly.



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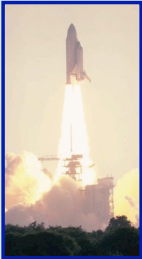
“Back to the Drawing Board”
Vocabulary
thrust

- Then they had to design propellers that would produce enough **thrust** to drive a flying machine through the air.

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“Back to the Drawing Board”
Vocabulary
thrust

- Then they had to design propellers that would produce enough **thrust** to drive a flying machine through the air.
- The **thrust** of the rocket was powerful enough to shake the ground around the launching pad.



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