



Summary

Know How Know Why: Flight is a fact-filled question/answer book that covers all types of aircrafts—from bombers to balloons. The content includes interesting and unusual facts about aircrafts, materials used, and historical accounts of man's airborne feats.

Vocabulary		Comprehension Strategy	Genre Study	Text Features	
air traffic control	autopilot	Using prior knowledge to understand text, Asking questions	Text structure: Question/answer, Use of description, embedded definitions, and specificity	headings illustrations text boxes index	photographs captions glossary
aviator	barnstormer				
black box	drag				
fuselage	GPS				
hypersonic	lift				
mach	morphing				
radar	sonic boom				
subsonic	supersonic				
thrust	time zones				

Standards: History

- Understands how changing transportation and communication technology have affected relationships between locations
 - Understands the design and development of aircraft and rocketry, and the people involved
 - Knows the different forms of transportation and their developments over time
 - Knows about people who have made significant contributions in the field of transportation
- Kendall, J. S., & Marzano, R. J. (2004). *Content knowledge: A compendium of standards and benchmarks for K-12 education*. Aurora, CO: Mid-continent Research for Education and Learning (McREL). Online database: www.mcrel.org/standards-benchmarks/

Discussion Prompts Prior to Independent Reading

Vocabulary Building and Background Knowledge:

Read the title and ask students if they are familiar with different kinds of aircrafts. Scaffold a discussion that builds on the background knowledge of students and introduces them to the vocabulary words.

Discussion questions:

- What are some different types of aircraft?
- Which aircraft travel slow and which travel fast?
- Do you know of any famous people who have been involved with flight? If so, who were they and what was their contribution?
- Look at the Wright Brothers on pages 2-3 and at Amelia Earhart on page 31. What can you learn about these early flight pioneers?

Genre Study and Text Features:

State that **Know How Know Why: Flight** is an informational text

written in the question/answer format. Point out that each section starts with a main idea question and then provides an answer. Discuss ways to read a question/answer text and highlight features that support students in reading the text.

Highlight Prompts:

- Look at the glossary on pages 46 and 47. What are some things you will learn from reading this book?
- Look at the captions on pages 34 and 35. What do they tell you about a silent and deadly aircraft?

Reading the Book:

Have students read the book independently or with a partner.

Comprehension Questions

After students have completed reading **Know How Know Why: Birds** gather students together for a discussion based on the questions below or assign students to answer the questions independently or with a partner.

- What is something interesting you learned about the early ways of flight?
- What are the similarities and differences between bombers and fighters?
- What is your opinion of morphing aircraft?

BLM: Extension Activity

Students may use the next page to explore their opinions about flight by evaluating the text and organizing their thoughts in a PNI chart (Positive, Negative, Interesting).



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Name: _____ Date: _____

What's Your Opinion?

Directions: Explore your opinions about the history of flight by completing the evaluation chart below. Record positive thoughts/ideas, negative thoughts/ideas, and interesting thought/ideas.

P (Positive)	N (Negative)	I (Interesting)