

## Lesson 6: Exploring Space

**Lesson 6 Overview:** Lesson 6 reviews the Design Process and discusses how it is similar to the Writing Process. Children explore the book *Classified: The Secret Career of Mary Golda Ross, Cherokee Aerospace Engineer* and start to plan how they will program KIBO to represent a secret space mission!

**Powerful Ideas from Computer Science:** Design Process

**Powerful Ideas from Literacy:** Writing Process, Sequencing, Phonological Awareness, Alphabet and Letter-Sound Correspondence

### I. Warm Up: Read-Aloud

- Read *Classified: The Secret Career of Mary Golda Ross, Cherokee Aerospace Engineer* as a class.

### II. Opening Tech Circle: Design Process and Writing Process

- Discuss how books are created by people too, and authors go through a similar process with their writing.
- Show children the Design Process and the Writing Process Anchor Chart. Explain that both are creative processes that require imagination, planning, creating, revising, feedback, and sharing.
- Discuss the similarities and differences between engineers and writers.

### III. Unplugged Time: Values Brainstorm

- Explain to children that in the book they read, Mary's values from her Cherokee culture played a big part in her work.
- Using the VALUES Anchor Chart, lead a discussion around the importance of values and help children identify their own values.

### IV. Word Time: Let's Explore Space!

- Explain to children that over the next few classes, they are going to pretend KIBO is a spacecraft, and work on teams on their own secret space mission!
- In groups, children should use their Design Journal to plan their space mission program.

### V. Closing Tech Circle: What Does "Team" Mean to You?

- Remind children that one thing Mary valued is working together with others on a team. Have each child share one word they think of when they hear the word "team."

### Vocabulary:

Author

Value

Classified