# Study Guide: Chapter 10 - The Signal

## Summary

In Chapter 10: The Signal, Jace becomes determined to find a way to send a message off the island. Inspired by memories of tinkering with radios in his father’s workshop, he experiments with scraps of wire, metal, and the remnants of the old airplane equipment. Emily and Tyler help him gather materials, while Amelia offers guidance from her past knowledge of radios and aviation. Despite setbacks and limited tools, the children work together with creativity and persistence. The chapter ends with their hope rising as the faint crackle of a signal suggests that contact with the outside world might be possible.

## Vocabulary

static - crackling or hissing sound from a radio

broadcast - to send out signals or information by radio or TV

determined - having a strong decision to do something

scraps - small leftover pieces of material

equipment - tools or machines for a purpose

tinker - to repair or improve something in a casual way

improvise - to create or make something without preparation

experiment - to try out new ideas or methods

crackle - a sharp, popping sound

transmit - to send out signals or messages

signal - a sound, action, or movement that sends a message

persistence - continuing to try despite difficulties

guidance - help or advice from someone knowledgeable

aviation - the operation of aircraft

remnants - small remaining parts of something

resourceful - good at finding ways to solve problems

circuit - a path for electricity to flow

antenna - a wire or rod that sends or receives radio waves

frustration - the feeling of being upset from problems or delays

hopeful - feeling that good things will happen

## Comprehension Questions

1. What idea did Jace wake up with at the beginning of the chapter?

2. What memory inspired Jace to try sending a signal?

3. What materials did the children use to build their signal device?

4. How did Amelia contribute to their efforts?

5. What was the outcome at the end of the chapter?

## Answer Key

1. He wanted to find a way to send a signal off the island.

2. He remembered tinkering with radios in his father’s workshop.

3. Scraps of wire, metal, and old airplane equipment.

4. She offered guidance from her knowledge of radios and aviation.

5. They heard the faint crackle of a possible signal, giving them hope.

## Themes

- Creativity and problem-solving

- Hope in the face of adversity

- Working together as a team

- Innovation from limited resources

- Persistence despite setbacks