



## Essential Question

### Why are goals important?



*Go Digital!*



# SUCCESS!

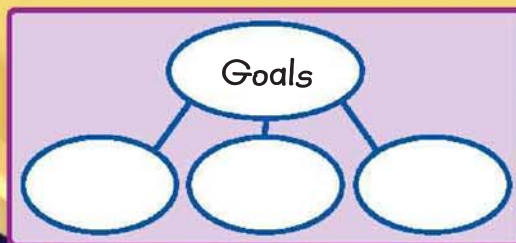
Kayla had a goal. She wanted to win her race in the Special Olympics. Her goal was important to her, so she worked hard. Kayla is so proud of herself today.

- ▶ Goals are important.
- ▶ They help us focus and learn new things.
- ▶ Achieving our goals makes us feel good about ourselves.

## Talk About It



Write words you have learned about goals. Talk with a partner about why goals are important.



# Vocabulary

Use the picture and the sentence to talk with a partner about each word.



**communicated**

Mora and her friends **communicated** by writing emails to each other.

*What are some ways you have communicated with friends?*



**essential**

A toothbrush is an **essential** tool for cleaning teeth.

*What is an essential tool for planting seeds?*



**goal**

Nick reached his **goal** and learned to swim.

*Tell about a goal that you have.*



**motivated**

Jerry was **motivated** to learn to play his guitar, so he practiced every day.

*What have you been motivated to learn to do?*



## professional

Ted works as a **professional** police officer.

Where would a professional musician work?



## research

Melanie's mom is a scientist, and she uses a microscope to do **research**.

What animal would you like to research?



## serious

Winnie pays attention because she is **serious** about getting good grades.

What is another word for *serious*?



## specialist

Dr. Morrison is a **specialist** in sports medicine.

What does it take to be a specialist?

## Your Turn

COLLABORATE



Pick three words. Write three questions for your partner to answer.

**Go Digital!** Use the online visual glossary

# ROCKETING INTO SPACE



(c) Time & Life Pictures/Getty Images; (l) NASA/JPL



## Essential Question

**Why is having goals important?**

Read how one man used his education and experience to reach his goals.

When James A. Lovell, Jr. was a boy, he loved to build rockets and launch them into the sky. But his dreams went a lot farther than his rockets. Like many boys who grew up in the 1930s, Lovell dreamed of being a pilot. And as he watched his rockets soar, he knew someday he would, too.

## HIGH FLYING DREAMS

Lovell was born in Cleveland, Ohio, in 1928. He worked hard in school and planned to go to a special college to study **astronomy** and rockets. Unfortunately, he didn't have enough money to attend. Lovell had to figure out another way to reach his **goal**.

Lovell was **motivated** to find a way to fly rockets. So, he went to college near his home for two years and then signed up for flight training at the United States Naval Academy. After four years at the academy, Lovell joined the United States Navy and became a **professional** naval test pilot. His job was to fly planes before anyone else was allowed to fly them.

**James A. Lovell, Jr. became an astronaut in 1962. He flew four space missions.**



# PILOT TO ASTRONAUT

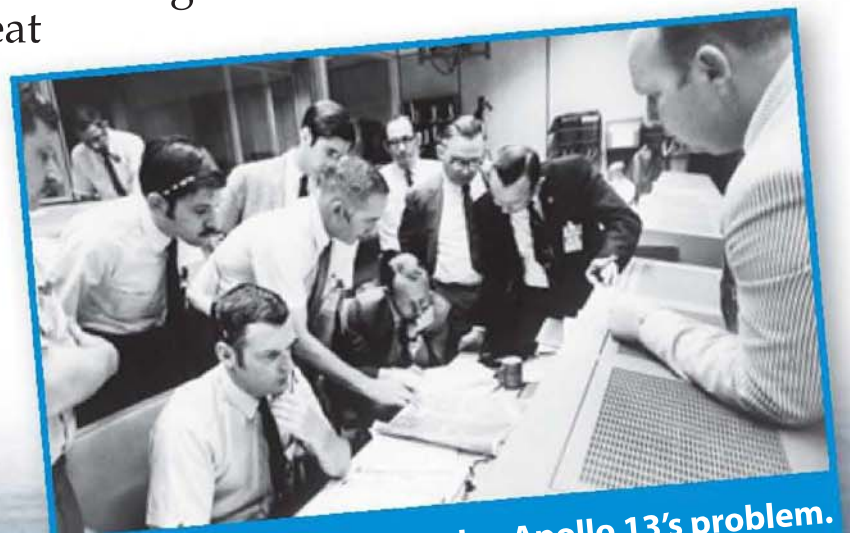
As a pilot, Lovell spent more than half of his flying time in jets. He taught other pilots how to fly. He also worked as a **specialist** in air flight safety. Soon, the National Aeronautics and Space Administration, or NASA, put out a call for astronauts. Lovell applied for the job because he had all the **essential** skills needed to fly into space. As a result, NASA chose him. By 1962, James Lovell was an astronaut! He had finally reached his goal.

## BIG CHALLENGES

Lovell flew on three space missions, and then, in April 1970 he became commander of the Apollo 13 mission. This was a big responsibility and a great honor. This was also one of the biggest **challenges** of Lovell's life.

Apollo 13 was supposed to land on the Moon. Two days after leaving Earth, however, the spacecraft had a **serious** problem. One of its oxygen tanks exploded. The crew did not have enough power or air to breathe. They could not make it to the Moon.

Lovell **communicated** with the experts at NASA. No one knew what to do at first. Then the team on the ground did some **research** and came up with a solution. The astronauts followed the team's directions and built an invention using plastic bags, cardboard, and tape. It worked! It cleaned the air in the spacecraft. But the next problem was even bigger. How were the astronauts going to get back to Earth?



NASA's team works to solve Apollo 13's problem.

## A JOB WELL DONE

The NASA team decided the astronauts would use the **lunar**, or moon, module as a lifeboat. James and the other two astronauts climbed into the smaller spacecraft and shut the hatch tight. They moved away from the main spaceship. With little power, water, food, or heat, the astronauts listened carefully to the team at NASA.

The trip back to Earth was dangerous and scary. For almost four days, the astronauts traveled in a cramped capsule. They were cold, thirsty, and hungry. Then, with millions of people watching on television, the module fell to Earth.

**The Apollo 13 crew splashed down safely on April 17, 1970.**



Years later, James Lovell said that Apollo 13 taught him how important it was for people to work together. His favorite memory was when the capsule splashed down in the Pacific Ocean and the diver knocked on the window to let them know they were safe.

## A DREAM COME TRUE

**DID YOU EVER DREAM OF GOING INTO SPACE? CHECK OUT SPACE CAMP!**

Space camps have been around for more than 30 years. They make science, math, and technology exciting so kids will want to learn more. And like the NASA training programs, these camps teach the importance of teamwork and leadership.



## Make Connections

How did James A. Lovell's goals as a child help him as an adult? **ESSENTIAL QUESTION**

Tell about one of your goals and how you might achieve it. **TEXT TO SELF**