

Helpers at Work

Students connect scientists to their work and explain how inventions help people.

1.4 "Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation for society..."

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 HELPFUL IDEAS

a	Filter	Vaccine	Ramp
b	Ramp	Filter	Vaccine
c	Vaccine	Ramp	Filter

2 SCIENCE WORK

Katherine	•	•	Cells
SallyRide	•	•	Flightpaths
ErnestJust	•	•	Spaceflight

HOW TO RUN THIS PAGE

Read every prompt and choice aloud. In Part 1, listen for each student's spoken idea about how the invention helps others, then have students circle the matching word. In Part 2, students use what they have learned about these scientists to match each name to a work clue.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • HELPFUL IDEAS

SAY “For each row, first tell a partner how the science idea or invention can help people. Then listen to the three words and circle the word that names the idea we are talking about.”

ROW	SAY	STUDENTS CIRCLE
a	Scientists made a vaccine. How can a vaccine help people? Tell a partner. The words are Filter, Vaccine, Ramp. Which word names the science idea we are talking about? Circle it.	Vaccine
b	Engineers designed a ramp at a building. How can a ramp help someone? Tell a partner. The words are Ramp, Filter, Vaccine. Which word names the invention we are talking about? Circle it.	Ramp
c	Scientists made a filter for drinking water. How can a filter help people? Tell a partner. The words are Vaccine, Ramp, Filter. Which word names the science idea we are talking about? Circle it.	Filter

PART 2 • SCIENCE WORK

SAY “Look at the names on the left and the work clues on the right. What do you remember about Katherine Johnson, Sally Ride, and Ernest Just? Draw a line from each name to the work clue that matches.”

- **Katherine** matches **Flightpaths**
- **SallyRide** matches **Spaceflight**
- **ErnestJust** matches **Cells**

WHAT TO ACCEPT

Part 1 answers are Vaccine, Ramp, Filter. Accept spoken explanations such as a vaccine can help stop sickness, a ramp can help people get into a building, and a filter can help make drinking water cleaner. Part 2 matches are Katherine Johnson to Flightpaths, Sally Ride to Spaceflight, and Ernest Just to Cells.