Oklahoma Problem Solvers

Science and medicine contributions from Oklahoma

3.C.3.3.A "Science and Medicine (e.g., Shannon Lucid, Thomas Stafford, Dr. Nazih Zuhdi)"

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline what each person did in science or medicine, and circle the Oklahoma place linked to each person. Use your marks to see how people from Oklahoma helped others.

From Oklahoma to New Discoveries

1. Shannon Lucid grew up in Bethany, Oklahoma. As a NASA astronaut, she spent months on the space station Mir in 1996. Mir was a place to live and work above Earth. Lucid did science experiments there, including studies of how living things change in space. Her work helped people learn what astronauts may need on long trips away from Earth.

2. Thomas Stafford was born in Weatherford, Oklahoma. In 1969, he commanded Apollo 10, a flight around the Moon. The crew tested a small spacecraft called the lunar module. It flew close to the Moon but did not land. This test helped NASA get ready for the first Moon landing. Stafford showed how careful tests can lead to big steps in space travel.

3. Dr. Nazih Zuhdi worked in Oklahoma City, Oklahoma. He was a heart surgeon, a doctor who operates on hearts. He helped improve a heart-lung machine used during surgery. The machine moves blood and adds oxygen when a patient's heart cannot do that job during an operation. His work helped doctors perform heart surgery and care for people with sick hearts.

2 ANSWER WITH EVIDENCE

Use the passage

1. What did Shannon Lucid study on Mir, and how could her work help astronauts?

2. What did Thomas Stafford's crew test, and why did that test matter?

3. How did the machine Dr. Nazih Zuhdi helped improve make heart surgery possible?

4. How were Lucid's and Stafford's contributions alike, and how were they different?

3 YOUR TURN

Your own words

Imagine you are a scientist or doctor in Oklahoma. In three sentences, name a new problem in space travel or health, tell how you would study it, and explain how your work could help people.

ANSWER KEY

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GRADE 3 · 3.C.3.3.A

PART 1 · READ AND MARK

Underline what each person did in science or medicine, and circle the Oklahoma place linked to each person. Use your marks to see how people from Oklahoma helped others. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What did Shannon Lucid study on Mir, and how could her work help astronauts?	**She studied how living things change in space. Her work helped people learn what astronauts may need on long trips.**
2	What did Thomas Stafford's crew test, and why did that test matter?	**They tested the lunar module near the Moon. The test helped NASA prepare for the first Moon landing.**
3	How did the machine Dr. Nazih Zuhdi helped improve make heart surgery possible?	**It moves blood and adds oxygen when a patient's heart cannot do so during surgery.**
4	How were Lucid's and Stafford's contributions alike, and how were they different?	**Both helped people learn about space travel. Lucid did experiments on Mir, while Stafford helped test a spacecraft near the Moon.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

As a scientist in Oklahoma, I want to learn how astronauts can sleep better in space. I would ask them to try different sleep schedules and record how rested they feel. The results could help astronauts stay healthy on long trips.

Accept accurate answers in students' own words. For the marking job, students should circle Bethany, Weatherford, and Oklahoma City, and underline a science or medicine contribution in each paragraph.