

Texas Idea Makers

Identify leaders whose work shaped medicine, space, engineering, and computers.

7.19.B "identify Texas leaders in science and technology such as Walter Cunningham, Michael DeBakey, Denton Cooley, Benjy Brooks, Michael Dell, and Howard Hughes Sr.;"

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Circle every leader's name. Underline the words that tell what each person did in science, medicine, space exploration, or technology.

Six Texans, Many Fields

- ① Texas has been a place where people turned difficult problems into new tools and discoveries. In medicine, Dr. Michael DeBakey became known for improving heart surgery at Baylor College of Medicine in Houston. He helped develop the roller pump, a machine that moves blood during some heart operations. Dr. Denton Cooley, another Houston heart surgeon, founded the Texas Heart Institute. His surgical team performed a pioneering artificial-heart implant in 1969, showing how medical technology could support a patient whose heart was failing.
- ② Other Texas leaders expanded care and exploration. Dr. Benjy Brooks built a career in Houston as a pediatric surgeon, treating children and helping establish pediatric surgery as a specialty. Her work showed that young patients needed medical care designed for their bodies. Walter Cunningham brought Texas into the space age. As a NASA astronaut on Apollo 7 in 1968, he helped test the spacecraft that carried crews in Earth orbit. The mission's work helped prepare NASA for later trips to the Moon.
- ③ Texas technology also grew through business and engineering. Howard Hughes Sr. created a two-cone roller drill bit that cut through hard rock more effectively than earlier bits. His invention helped the oil industry reach underground resources, and it led to the Hughes Tool Company in Houston. In 1984, Michael Dell started a computer business from his University of Texas dorm room in Austin. Dell sold personal computers directly to customers, an approach that changed how many people bought computers. These leaders worked in different fields, but each connected an idea to a practical result.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 Which Texas leader worked in pediatric surgery, and whom did she treat?

2 Name the two leaders whose work focused on heart care. Give one contribution from the passage for each leader.

3 Which leader participated in Apollo 7, and what did he help test?

4 Identify Howard Hughes Sr. and Michael Dell by describing the technology or business contribution of each.

3 YOUR TURN _____ Your own words

Choose one leader from the passage. Write exactly three sentences for a museum label that identifies the leader, names the field, describes a contribution, and explains one practical result.

PART 1 • READ AND MARK

Circle every leader's name. Underline the words that tell what each person did in science, medicine, space exploration, or technology. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Which Texas leader worked in pediatric surgery, and whom did she treat?	Dr. Benjy Brooks. She treated children.
2	Name the two leaders whose work focused on heart care. Give one contribution from the passage for each leader.	Michael DeBakey helped develop the roller pump for heart operations. Denton Cooley founded the Texas Heart Institute, and his team performed a pioneering artificial-heart implant.
3	Which leader participated in Apollo 7, and what did he help test?	Walter Cunningham participated in Apollo 7. He helped test the spacecraft that carried crews in Earth orbit.
4	Identify Howard Hughes Sr. and Michael Dell by describing the technology or business contribution of each.	Howard Hughes Sr. created a two-cone roller drill bit for cutting through hard rock. Michael Dell started a computer business and sold personal computers directly to customers.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Howard Hughes Sr. was a Texas engineering leader who created a two-cone roller drill bit. The bit cut through hard rock more effectively than earlier bits. It helped the oil industry reach underground resources and led to the Hughes Tool Company in Houston.

Accept accurate identifications and contributions supported by the passage. For the museum label, accept any named leader if all four required ideas are included in exactly three sentences.