

**Your Teacher's Question:** How do bioengineers help treat patients?



# SHOW ME YOUR ACES!!!



**A**

**Answer the teacher's question in the form of a sentence:**

A bioengineer designs, makes, and tests medical devices used to treat patients.

**E**

**Give an example:**

1C Bioengineer, Bilal Shafi, creates medical devices that let failing hearts heal themselves.

**E**

**Explain/elaborate/expand upon your example:**

1E To prevent heart problems before they occur, Bilal Shafi created a liquid substance that a doctor injects. Then, the liquid quickly turns into gel after wrapping the heart. The wrap eventually dissolves producing a stronger, healthier heart.

**E**

2C Other bioengineers design replacement hips and other joints, and invent artificial bone that can help fractures heal.

**E**

2E Bioengineers who do research on bone cells, osteocytes, develop models for testing how major classes of bone cells effect the function of one another. They produce osteoblast and osteoclast cells in vitro (outside a living organism) to study the osteocyte network.

**S**

**Summarizing statement:**

Bioengineers design and develop innovative medical devices to treat patients.

**Completed Paragraph:**

A bioengineer designs, makes, and test medical devives used to treat patients. Bioengineer, Bilal Shafi, creates medical devices that helps failing hearts heal themselves. To prevent heart problems before they occur, Bilal Shafi created a liquid substance that a doctor injects. Then, the liquid quickly turns into gel after wrapping the heart. The wrap eventually dissolves producing a stronger, healthier heart. Other bioengineers design replacement hips and other joints, and invent artificial bone that can help fractures heal. Bioengineers who do research on bone cells, osteocytes, develop models for testing how major classes of bone cells effect the function of one another. They produce osteoblast and osteoclast cells in vitro (outside a living organism) to study the osteocyte network. In brief, bioengineers design and develop innovative medical devices to treat patients. They create models and devices that help to heal parts of our body and maintain bodily homeostasis.

**ACES Scoring Tool**

<b>Focus</b> —Answered the teacher’s question in the form of a sentence	5/5 points
<b>Content</b> —Cited 2 examples (text-based or self-based) explained each	10/10
<b>Organization</b> —Included introduction (A), body (C, E), and conclusion (S)	5/5
<b>Transitions</b> —Used transition words between C and E (first, second, another...)	5/5
<b>CUPS</b> —Capitalization, Usage, Punctuation, Spelling	5/5
	<b>30/30 total</b>

