

Name: _____
Date: _____

Pd: _____

Spin-off Gallery Walk

Directions: You will visit 7 stations in your gallery walk. While at each station, take a moment to read about some of the amazing NASA spinoffs that exist! You will have 3 minutes at each station. Below are questions from each station. **Respond IN COMPLETE SENTENCES to each question.** Each question is worth 6 points.

Health and Medicine

1. What is an advantage of using noninvasive (no surgery or excessive attachments) medical technology on people?
2. Of all the health and medicine spinoff, which do you think is the most important or which ones do you have direct experience with?

Transportation

1. What do you think are the two most important transportation space spinoffs? Explain why you chose these.
2. Describe what transportation would be like if there had not been the benefits of space spinoffs.

Public Safety

1. The World Trade Center Twin Towers were destroyed by terrorists in 2001. Which Public Safety spinoffs do you think would have helped save more lives? Explain your answer.

2. Now that the United States Space Program has slowed down, how do you think the United States will find ways to increase public safety?

Consumer Spinoff

1. If there had not been consumer space spinoffs, do you think other people would have found ways to develop these improvements?
2. Which consumer spinoffs do you use on a frequent basis?

Environmental Spinoffs

1. Which of these spinoffs would be used in case of an oil spill? How would the oil spill cleanup turn out differently without these spinoffs?
2. Do you think we will ever survive on only wind and solar powered energy? Why or why not?

Computer Technology Spinoffs

1. What do you think the computer of the future will be like (size, capability, and price)?

2. Why would virtual 3-D and virtual control be important to people in space?

Industrial Productivity Spinoffs

1. How could improved productivity help the United State's economy?

2. Describe what you think a "harsh" manufacturing environment is.

REFLECTION: Do you think the expense of the NASA program is justified? Support your answer. (10 points)

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Health and Medicine

1. Describe someone you know who has been sick. How could some of these spinoffs help the sick person?

2. Why do you think it would help to swallow a thermometer pill while an astronaut is in space.

Transportation

1. Why do you think having an anti-icing fluid for airlines is important?

2. Describe what happens when a house or car catches fire? How could insulating foam change these effects?

Public Safety

1. Do you know anyone who has been or is currently in the armed services? What benefit to these men and women are reconnaissance robots?

2. As the world becomes more populated, why would filtration systems be important?

Consumer Spinoff

1. What is an advantage AND disadvantage of cordless power tools?
2. Why is it important to purchase sunglasses that have UV protection? What would be a disadvantage of wearing sunglasses that do not have this UV protection?

Environmental Spinoffs

1. Which of these spinoffs would be used in case of an oil spill? How would the oil spill cleanup turn out differently without these spinoffs?
2. What is an advantage AND disadvantage of owning a lithium battery powered car?

Computer Technology Spinoffs

1. How has the 3-D software used to explore Mars benefited us here on Earth?
2. How do you think Ligon could benefit from using NASA's scheduling software?

Industrial Productivity Spinoffs

1. What is a benefit of having thermoelectric devices on our computers at school?
2. If you were an architect, what would be a benefit for using an open-lattice design in your next building?

REFLECTION: Of all the spinoffs you saw today, what is the most fascinating or interesting to you? Explain why? (10 points)