

Name: _____

Aligned to the following standards: FPS.01, FFAPL-A, FFAPL-E, FFAPL-F, FFAPG-I, FFACS-M, FFACS-N, CCSS.RI.910.2, CCSS.RI.9-10.4, CCSS.SL.9-10.2, CCSS.SL.9-10.4, CCSS.WHST.9-10.4, CRP.02, CRP.04, CRP.05, CRP.07, CRP.08, CRP.11

Appendix 5: Innovations That Transformed Agriculture

Part 1

Directions:

Read the article “Ag 101: Innovations That Transformed Agriculture” in the spring/summer 2026 issue of *FFA New Horizons* and fill in the chart below about the eight innovations discussed in the article.

Innovation	Description in Your Own Words	Impact of the Innovation

Reflection:

1. In your opinion, which innovation had the biggest impact and why?

Name: _____

Part 2

Directions:

Using the internet, research the eight innovations discussed in the article in Part 1. Create a timeline in the space below with those innovations. On the timeline, include the innovation, a picture and a brief description of the innovation.

1. How might agriculture be impacted if these innovations did not exist?
2. Which innovations do you think are most overdue for improvement or replacement? Explain.

Name: _____

Part 3

Directions:

You are now an innovator! Using what you learned from the past innovations, your task is to design a new innovation that solves a current real-world problem and market it using a sales poster. Your goal is to convince others that your innovation is needed, effective and valuable.

Step 1: Choose a current problem related to agriculture. Problem Statement (One or two sentences)	Step 2: Propose Your Innovation. Name of Innovation
Describe Your Innovation. Explain what your innovation is and how it works.	How Does It Solve the Problem? Be specific about how your innovation improves the situation.
Step 3: Target Audience and Benefits Who would buy or use this innovation?	Top Three Benefits (Why should someone want this?)
	1. 2. 3.
Step 4: Challenge and Limitations No innovation is perfect. Identify at least one challenge.	What part of the value chain does this impact?
1. 2. 3.	

Step 5: Create Your Sales Poster.

Your sales poster should persuade others to support or purchase your innovation.

Poster Requirements:

Your poster must include:

- Innovation name and slogan
- Clear description of the problem
- Visual (drawing, diagram or image)
- How the innovation works
- Value chain impact
- Target audience and benefits
- Why this innovation matters

Name: _____

Sale Poster Rubric

	4 Accomplished	3 Satisfactory	2 Basic	1 Very Limited	Total
Problem Identification	Problem is clearly defined, relevant and compelling.	Problem is clear and relevant.	Problem is somewhat unclear or vague.	Problem is unclear or missing.	
Innovation Idea	Solution is creative, realistic and well-explained.	Solution is realistic and explained.	Solution is basic or partially explained.	Solution is unclear or unrealistic.	
Persuasiveness	Strong, convincing message with clear benefits	Clear message with benefits	Limited persuasive language	Little to no persuasion	
Visual Appeal	Poster is highly engaging, organized and visually appealing.	Poster is neat and easy to understand.	Poster is cluttered or difficult to follow.	Poster is incomplete or messy.	
Total					

Comments:

Name: _____

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KEY: Appendix 5: Ag 101 Innovations That Transformed Agriculture

Part 1

Directions:

Read the article “Ag 101: Innovations That Transformed Agriculture” in the spring/summer 2026 issue of *FFA New Horizons* and fill in the chart below about the eight innovations discussed in the article.

Innovation	Description in Your Own Words	Impact of the Innovation
Green Revolution	Answers will vary.	Increased food production and economic growth
Mechanized Farming	Answers will vary.	Farming practices became more productive
Biotechnology	Answers will vary.	Improved performance for animals, crops and humans
Selective Breeding	Answers will vary.	Strengthened desired traits and increased yields
Synthetic Fertilizers	Answers will vary.	Increased yields
Artificial Intelligence	Answers will vary.	More efficient farming
Transportation	Answers will vary.	Increased movement of crops across the globe
Precision Agriculture	Answers will vary.	Increased precision and informed decisions

Reflection:

1. In your opinion, which innovation had the biggest impact and why?
Answers will vary.

Name: _____

Part 2

Directions:

Using the internet, research the eight innovations discussed in the article in Part 1. Then, create a timeline in the space below with those innovations. On the timeline, include the innovation, a picture and a brief description of the innovation.

1. How might agriculture be impacted if these innovations did not exist?

Answers will vary.

2. Which innovations do you think are most overdue for improvement or replacement? Explain.

Answers will vary.

Name: _____

Part 3

Directions:

You are now an innovator! Using what you learned from the past innovations, your task is to design a new innovation that solves a current real-world problem and market it using a sales poster. Your goal is to convince others that your innovation is needed, effective and valuable.

Step 1: Choose a current problem related to agriculture. Problem Statement (One or two sentences)	Step 2: Propose Your Innovation. Name of Innovation
Answers will vary.	Answers will vary.
Describe Your Innovation. Explain what your innovation is and how it works.	How Does It Solve the Problem? Be specific about how your innovation improves the situation.
Answers will vary.	Answers will vary.
Step 3: Target Audience and Benefits Who would buy or use this innovation?	Top Three Benefits (Why should someone want this?)
Answers will vary.	1. Answers will vary. 2. 3.
Step 4: Challenge and Limitations No innovation is perfect. Identify at least one challenge.	What part of the value chain does this impact?
1. Answers will vary. 2. 3.	Answers will vary.

Step 5: Create Your Sales Poster.

Your sales poster should persuade others to support or purchase your innovation.

Poster Requirements:

Your poster must include:

- Innovation name and slogan
- Clear description of the problem
- Visual (drawing, diagram or image)
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Sale Poster Rubric

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Comments: