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UNIT SYNOPSIS

This unit examines the origins of agriculture and its subsequent diffusion. Students learn about the ways agricultural practices have changed over time because of technological innovations, such as equipment mechanization and improvements in transportation that create global markets. In addition, they examine the consequences of agricultural practices such as the use of high-yield seeds and chemicals, revisiting the human–environmental relationships studied in Unit 1. Course emphasis on spatial patterns is evident in this unit as students consider the diffusion in what foods or resources are produced and where they are produced. These agricultural production regions are impacted by economic and technological forces that increase the size of agricultural operations and the carrying capacity of the land. This has in turn created a global system of agriculture and the interdependence of regions of agricultural consumption and production. Student understanding of this global system of agriculture based on government cooperation lays the foundation for a deeper understanding of economic development in the final unit of the course.

ENDURING UNDERSTANDINGS AND CONTENT STANDARDS

Below are the standards **taught** and **assessed** in this unit.

Topic, Enduring Understanding, Learning Objectives (<i>Students will be able to...</i>)
5.1 Introduction to Agriculture <ul style="list-style-type: none">• PSO-5: Availability of resources and cultural practices influence agricultural practices and land-use patterns.<ul style="list-style-type: none">○ PSO-5.A: <i>Explain the connection between physical geography and agricultural practices.</i>
5.2 Settlement Patterns and Survey Methods <ul style="list-style-type: none">• PSO-5: Availability of resources and cultural practices influence agricultural practices and land-use patterns.<ul style="list-style-type: none">○ PSO-5.B: <i>Identify different rural settlement patterns and methods of surveying rural settlements.</i>
5.3 Agricultural Origins and Diffusions <ul style="list-style-type: none">• SPS-5: Agriculture has changed over time because of cultural diffusion and advances in technology.<ul style="list-style-type: none">○ SPS-5.A: <i>Identify major centers of domestication of plants and animals.</i>○ SPS-5.B: <i>Explain how plants and animals diffused globally.</i>
5.4 The Second Agricultural Revolution <ul style="list-style-type: none">• SPS-5: Agriculture has changed over time because of cultural diffusion and advances in technology.<ul style="list-style-type: none">○ SPS-5.C: <i>Explain the advances and impacts of the second agricultural revolution.</i>
5.5 The Green Revolution <ul style="list-style-type: none">• SPS-5: Agriculture has changed over time because of cultural diffusion and advances in technology.<ul style="list-style-type: none">○ SPS-5.D: <i>Explain the consequences of the Green Revolution on food supply and the environment in the developing world.</i>
5.6 Agricultural Production Regions <ul style="list-style-type: none">• PSO-5: Availability of resources and cultural practices influence agricultural practices and land-use patterns.<ul style="list-style-type: none">○ PSO-5.C: <i>Explain how economic forces influence agricultural practices.</i>
5.7 Spatial Organization of Agriculture <ul style="list-style-type: none">• PSO-5: Availability of resources and cultural practices influence agricultural practices and land-use patterns.<ul style="list-style-type: none">○ PSO-5.C: <i>Explain how economic forces influence agricultural practices.</i>
5.8 Von Thunen Model <ul style="list-style-type: none">• PSO-5: Availability of resources and cultural practices influence agricultural practices and land-use patterns.<ul style="list-style-type: none">○ PSO-5.D: <i>Describe how the von Thünen model is used to explain patterns of agricultural production at various scales.</i>
5.9 The Global System of Agriculture <ul style="list-style-type: none">• PSO-5: Availability of resources and cultural practices influence agricultural practices and land-use patterns.<ul style="list-style-type: none">○ PSO-5.E: <i>Explain the interdependence among regions of agricultural production and consumption.</i>
5.10 Consequences of Agricultural Practices <ul style="list-style-type: none">• IMP-5: Agricultural production and consumption patterns vary in different locations, presenting different environmental, social, economic, and cultural opportunities and challenges.<ul style="list-style-type: none">○ IMP-5.A: <i>Explain how agricultural practices have environmental and societal consequences.</i>
5.11 Challenges of Contemporary Agriculture

- **IMP-5:** Agricultural production and consumption patterns vary in different locations, presenting different environmental, social, economic, and cultural opportunities and challenges.

- **IMP-5.B:** Explain challenges and debates related to the changing nature of contemporary agriculture and food-production practices.

5.12 Women in Agriculture

- **IMP-5:** Agricultural production and consumption patterns vary in different locations, presenting different environmental, social, economic, and cultural opportunities and challenges.

- **IMP-5.C:** Explain geographic variations in female roles in food production and consumption.

STANDARDS CLARIFICATION

Standards Guidance for Instructional Managers

STANDARDS CLARIFICATION				
Cycle	Essential Questions	Priority Standards	What do students need to know?	How will students practice this content?
Agricultural Revolution	<p>How does agriculture change the cultural landscape?</p> <p>How does each agricultural revolution change society?</p> <p>What strains do each agricultural revolution place on the environment?</p>	<p><i>Availability of resources and cultural practices influence agricultural practices and land-use patterns (PSO-5).</i></p> <p><i>Agriculture has changed over time because of cultural diffusion and advances in technology (SPS-5).</i></p>	<p>Early hearths of domestication of plants and animals arose in the Fertile Crescent and several other regions of the world, including the Indus Valley, Southeast Asia, and Central America (SPS-5.A.1).</p> <p>Patterns of diffusion, such as the Columbian Exchange and the agricultural revolutions, resulted in the global spread of various plants and animals (SPS-5.B.1).</p> <p>New technology and increased food production in the second agricultural revolution led to better diets, longer life expectancies and more people available to work in factories (SPS-5.C.1).</p>	<p>Students will practice by:</p> <ul style="list-style-type: none"> • Memrise vocabulary practice. • Analyzing maps and hearths. • Writing Free Response Questions • Analyzing Case Studies • Writing DBQs
Organization of Agricultural Regions	<p>How are agricultural producing regions organized around the world?</p> <p>How does the Von Thunen Model predict agricultural land use patterns?</p>	<p><i>Availability of resources and cultural practices influence agricultural practices and land-use patterns (POS-5).</i></p> <p><i>Agricultural production and consumption patterns vary in different locations, presenting different environmental, social, economic, and cultural opportunities and challenges (IMP-5).</i></p>	<p>Large-scale commercial agricultural operations are replacing small family farms (PSO-5.C.3).</p> <p>Technology has increased economies of scale in the agricultural sector and the carrying capacity of the land (PSO-5.C.5)</p> <p>Von Thünen’s model helps to explain rural land use by emphasizing the importance of transportation costs associated with distance from the market; however, regions of specialty farming do not always conform to von Thünen’s concentric rings (PSO-5.D.1).</p>	<p>Students will practice by:</p> <ul style="list-style-type: none"> • Memrise vocabulary practice. • Analyzing maps and hearths. • Writing Free Response Questions • Analyzing Case Studies • Writing DBQs

<p>Contemporary Agriculture</p>	<p>How is food produced and consumed globally?</p> <p>How has the global distribution of food help society and in turn harmed the environment?</p>	<p><i>Agricultural production and consumption patterns vary in different locations, presenting different environmental, social, economic, and cultural opportunities and challenges (IMP-5).</i></p>	<p>The main elements of global food distribution networks are affected by political relationships, infrastructure, and patterns of world trade (PSO-5.E.3).</p> <p>Environmental effects of agricultural land use include pollution, land cover change, desertification, soil salinization, and conservation efforts (IMP-5.A.1).</p> <p>Agricultural practices—including slash and burn, terraces, irrigation, deforestation, draining wetlands, shifting cultivation, and pastoral nomadism—alter the landscape (IMP-5.A.2).</p> <p>The role of females in food production, distribution, and consumption varies in many places depending on the type of production involved (IMP-5.C.1).</p>	<p>Students will practice by:</p> <ul style="list-style-type: none"> • Memrise vocabulary practice. • Analyzing maps and hearths. • Writing Free Response Questions • Analyzing Case Studies • Writing DBQs
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