**AP Human Geography – KBAT Chapter 10 Study Guide: Agriculture – 100 Points**

**Essential Question: How has the development of agriculture diffused and diversified over time?**

**KNOW These Core Concepts and Vocabulary Terms:**

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| Core Concepts | Academic Vocabulary |
| **Key Issue 1: Where did agriculture originate?**  **Agriculture** & **Crop**: definition  -MDC v. LDC level of human participation in farming; societal comparison  **Hunters & Gatherers**: Division of labor, Group size, Activity  -Who still practices it & where  **Agricultural Revolution**: Phases, when & where; Environmental v Cultural factors  -Crop Hearths: Where & what grown  -Animal Hearths: Where & what animals, purposes  -Integration of plants & animal, why?  **Subsistence v Commercial Agriculture**: definitions, locations & reasons why  -MDC v LDC comparison: Labor Force, Machinery, Farm size | Sustenance  Domesticate  Periphery  Nomad  Hectare  Mechanization |
| **Key Issue 2: Why do people consume different foods?**  **Food Consumption**: Diet variations, role of development, climate & culture  -**Dietary Energy Consumption**, Calories (daily requirements & global variations)  -Grains: ID them, global status, use, location / Protein intake variations  -**Food Security**: defined, global variations  -**Undernourishment**: defined, where & why | Supermarket  Surplus  Obesity  Deficiency |
| **Key Issue 3: Where is agriculture distributed?**  **Derwent Whittlesey**’s Regional Theory: Summarize & define / locate regions, crop  -Developing Country Regions: Role of Climate, Culture, Development  --Pastoral Nomadism: Where? Who? Which animals? Why? Transhumance, Future?  --Shifting Cultivation: Activity, **Slash & Burn** process, Where? Who? Future?  --Intensive Wet Rice: Where? Who? Process?  --Intensive Non-Wet Rice: Where? Who? Historical example?  --Plantation: Where? Why? What crops? Labor? Historical example?  -Developed Country Regions: **Agribusiness** defined & example  --Mixed Crop & Livestock: Where? What crops & animals? **Crop Rotation** history  --Commercial Gardening / Fruit: **Truck Farming**, Where? What crops?  --Dairy Farming: Where? Technology role? Challenges?  --Grain Farming: Which crops & where? Technology role? Who dominates? --Mediterranean: Climate zones? Which crops? Challenges?  --Livestock Ranching: Where & Who? Historical background? Technology role? | Taboo  Masai / Bedouin  Sedentary  Forage  Pasture  Deplete  Fallow  Debris  *Swidden*  Concentric  **Deforestation**  **Greenhouse Effect**  *Sawah* / Paddy  Chaff / Thresh  Winnow / Hull  **Double Cropping**  Commune  Subdivide  Tenant Farmer  Barter  Exacerbate |
| Core Concepts | Academic Vocabulary |
| **Key Issue 4: Why do farmers face economic difficulties?**  Developing (LDC) Country Challenges:  -Issues & **Ester Boserup** theory; Role of Global Trade? Africa’s dilemma?  -Drug Crops: Which & where? Issues farmers face?  -Food Price Challenges: Factors (UN report)  -**Sustainability** Challenges: Invasive species  Developed (MDC) Country Challenges:  -**Overproduction**: Why does it occur? Government reactions?  -**Von Thunen Model**: Concept & Rings, other factors, limitations to theory  -Food Supply Increase: Export v Land Use v Fishing v Productivity  --Export: From >> To? Who leads in export & import of food?  --Land Use Expansion: Limitations? Desertification? Overgrazing? Waterlogging?  --Fishing Expansion: Current consumption trends? How to? Where? Issues?  --Productivity Increase: Green Revolution, Dr. Borlaug, GMOs, Issues?  -Sustainable Agriculture: Benefits & Costs? How & where done? | Horn of Africa / Sahel  Subsidy  Urbanization **Aquaculture**  **Hybrid**  **Ridge Tillage**  Free Range  Organic |

***Be Able To:***

* ***Explain how agriculture originated & identify its various hearths***
* ***Describe the evolution of agricultural practice***
* ***Correlate climate, terrain & practices with various agricultural regions***
* ***Describe and apply the Von Thünen model to both small & large scale situations***
* ***Map linkages between regions of production & consumption at different scales***
  + ***World regions & crops of export & import***
  + ***Production & consumption (market) regions within a specific area / location***
* ***Use agricultural practices to differentiate between developed & developing countries***
* ***Discuss current trends, changes & issues associated with agricultural practices in BOTH developed & developing regions***
  + ***Farm size & methods***
  + ***Crop types***
  + ***Effects of changing markets & government policy***

**Free Response Question for Assignment B (TWO required):**

1. Agriculture & the human quest for food has evolved over time and continues to do so.
   1. Describe “hunting / gathering” and its role in today’s world.
   2. Define “agricultural revolution” and its various crop and animal hearths.
   3. Identify & explain the differences between subsistence and commercial agriculture.
2. Consumption of food varies globally.
   1. Identify the THREE main grains used for dietary energy consumption.
   2. Identify the source of EACH grain and its primary consumption pattern.
   3. Compare developed & developing countries in terms of food security & undernourishment
3. Many different climate & agricultural regions exist. Using Whittlesey’s agricultural model…
   1. Identify the FIVE types of regions that predominate developing countries & explain the connection to their locations
   2. Identify the SIX types of regions that predominate developed countries & explain the connection to their locations
   3. Explain TWO reasons why these differences between developing and developed countries exist.

**Free Response Questions continued on next page**

**Free Response Questions (continued):**

1. Farmers around the world face challenges in feeding the world’s population.
   1. Identify & explain TWO challenges faced by farmers in developing countries.
   2. Identify & explain TWO challenges faced by farmers in developed countries (von Thünen?)
   3. Identify & explain the FOUR strategies being considered for increasing global food supply

**Chapter 10 – Agriculture – Homework Grid – 100 Points – Choose the Projects & Build Your Grade**

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| A. **Complete a Dated Chapter Reading Log** or a dated paragraph summary of your daily learning from the reading notes / in-class lecture, activity or discussion. A paragraph requires 5-7 sentences.  (5 points per day) | B. Construct well-written paragraph responses of about 5-7 sentences to the **Free Response Questions** provided in the KBAT Study Guide. **Fully** answer all parts of the Q AND indicate each portion of the answer.  **NOTE: TWO REQUIRED** (5 points per SAQ) |
| C. **Analyzing Source Material**. Read & analyze THREE (3) of the sources listed below. For EACH document complete an ESPeN worksheet (on the “Class Documents” tab) to demonstrate your analysis:  - Any in-class Activity Documents you completed  - Figures 10-6, 10-7 & 10-8 (p.350-51) Productivity  - Figures 10-9 > 10-17 (p.352-55) Nutrition & Hunger  - Figures 10-18 & 10-19 (p.356-57) Production-Climate  - Figures 10-24 > 10-44 (p.362-73) Global Trends  - Figure 10-48 (p.376) Impact of drugs  (5 points each) | D. **Form a Study Group & Execute ONE Effective 1-hour Study Session.** Download the Group Study Session form from the Class Documents tab, engage in a focused study session where you discuss and clarify specific content such as:  - How has agriculture developed over time? What major developments have had the greatest impact?  - How has technology impacted the variations in food supply & consumption? Consider the differences between developed & developing countries.  - Why do different regions have different diets? How has this changed over time?  - What theories exist to explain food supply & its consumption? What are their main ideas? Consider Boserup, von Thünen & Whittlesey.  - What food challenges does the world face today & how are they being dealt with? Evaluate them.  FULLY COMPLETE THE FORM to verify your learning. Each person completes their own form & includes a photo of the group in action. (10 Points) |
| E. **Personal Field Trip / Case Study – Let’s Go Shopping.** Identify your favorite multi-course meal & make a list of its ingredients. Go to a market and research the sources of these various ingredients and write a 1-2 page summary that explains your process and your findings as to how agribusiness is regionalized / globalized. Include a picture of you partaking in this meal and your sources of information.  (15 Points) | F. **The Geography of Breakfast Project.** Research your favorite breakfast and complete the project requirements per the instruction sheet. You will be researching and reporting on the “where, how & why ingredients are produced, as well how it is processed, transported and marketed to you, the end user. Mapping is required. See instruction sheet.  (50 points) |