Learning Guide 0.0.1 – Getting Started with Precision Agriculture

Name_____

Part 1: Vocabulary Matching

Match each term to its correct definition

___Precision Agriculture

___ Yield Monitor

___ Soil Sampling

___ Guidance System

___ Variable Rate Technology

___ Section Control

___ Remote Sensing

___ Soil/Yield Map

A. Shows variation in crop productivity across a field

B. Equipment that applies varying input across a field

C. Technology based farm management using spatial data

D. Turns off planter or sprayer sections to avoid overlap

E. Collecting soil data to analyze nutrient and pH levels

F. Helps operators steer accurately using GPS

G. Uses satellite, drone, or plane imagery for decisions

H. Displays live harvest data from specific field areas

Part 2: Fill in the blank

Complete each sentence using a term from the word bank (not all words are used)

Word Bank
Autosteer Satellite 1990s RTK Manual Sustainability 1950s Imagery pH Sprayer

1. _____ imagery allows farmers to detect crop health issues from above

2. Precision agriculture became more common starting in the _____

3. Guidance systems that steer the tractor for the operator are called_____

4. A _____ is a piece of equipment that applies pesticides or fertilizers.

5. Precision agriculture helps support _____ by minimizing input waste.

Part 3: Short Answer

1. What is the main difference between traditional farming and precision farming?

2. Why is understanding within a field important for farmers?

3. How do soil and yield maps help farmers make better decisions?