Ag Science 1 · Unit 1 · Level 2 (modified)

Ag Words & Whatcom Farms



TODAY'S PLAN

- 📖 Ag Terms (Top 50)
- 🟫 Soil, crops, inputs
- 📊 Washington ag facts
- 🫐 Whatcom County ag
- 🏪 Ag businesses

Words to Know

Words to Know



Agriculture

The science and practice of growing crops and raising animals for food, fiber, and other products.



Crop

A plant grown on a farm to eat, sell, or feed animals.



Livestock

Animals raised for food, fiber, or work, like cows, pigs, sheep, and goats.



Agribusiness

A business in agriculture: farming, processing, or selling (feed store, nursery, vet).

Words to Know

More Words to Know



🌿 **Organic**: Farming without synthetic pesticides or fertilizers, using natural methods.

🟫 **Topsoil**: The top layer of soil where most plant roots grow.

💩 **Fertilizer**: Something added to soil to help plants grow (manure and compost are natural kinds).

🐝 **Pollinate**: Moving pollen between flowers so they can make fruit. Bees do most of it.

Learn

What Is Agriculture?

🌾 **Agriculture**: the science and practice of growing crops and raising animals for food, fiber, and other products.

🏪 **Agribusiness**: farming, processing, and marketing.

🌿 **Organic**: no synthetic pesticides or fertilizers.



Learn

Farm Inputs



Fertilizer
helps plants grow



Compost
decayed plants as fertilizer



Pesticide
kills pests



Herbicide
kills weeds

🃏 Check 1 of 3



A chemical that kills weeds is…

Hold up 1, 2, or 3:

1️⃣ Insecticide

2️⃣ Herbicide

3️⃣ Fungicide

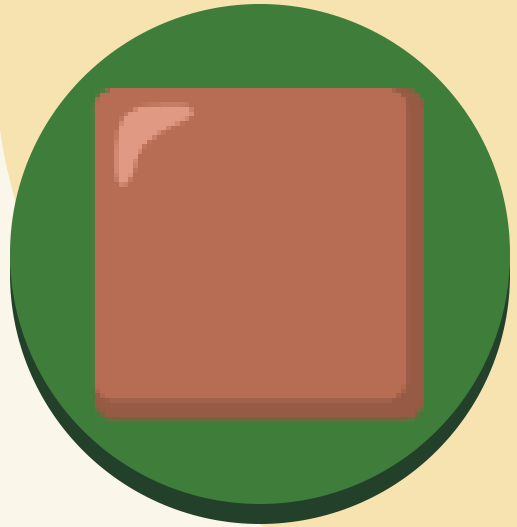


Herbicide

Herb = plant; insecticide = insects; fungicide = fungus.

Learn

Soil and Crops



🟫 **Topsoil**: top layer where most roots grow. **Erosion** wears it away.

🔄 **Crop rotation**: plant different crops in turns to keep soil healthy.

🫘 **Legumes** (beans, peas) add nitrogen to soil.

Learn

Farm Technology

🚜 **Combine**: harvests, threshes, and cleans grain.

📡 **Precision ag**: GPS, drones, and sensors.

💧 **Hydroponics**: plants in nutrient water, no soil.



🃏 Check 2 of 3



Growing plants in nutrient water without soil is…

Hold up 1, 2, or 3:

1️⃣ Horticulture

2️⃣ Aquaculture

3️⃣ Hydroponics

✅ Answer · Card 2 of 3



Hydroponics

Hydro = water.

Learn

Washington Agriculture

🌱 About **300** crops grown; second only to California in variety.

💵 About **$51 billion** impact on the state's economy.

👷 Jobs for more than **164,000** people.



Learn

Washington's Top 5 (2016)



1. Apples

$2.4 billion



2. Milk

$1.1 billion



3. Potatoes

$813 million



4. Cattle

then 5. wheat

🃏 Check 3 of 3



Washington's top commodity is…

Hold up 1, 2, or 3:

1️⃣ Apples

2️⃣ Wheat

3️⃣ Hops



Apples

Apples, worth about $2.4 billion (2016).

Learn

Whatcom County Ag

🫐 Leader in **red raspberries** and big in **blueberries**.

🥛 A top **dairy** county in Washington (milk is #2 in WA).

🥔 **Seed potatoes** for growers across the West.



Learn

Farmland Matters



🏡 Whatcom has about **1,582** farms; most are small (< 49 acres).

🏙️ Once land leaves agriculture, it rarely comes back.

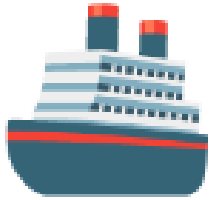
🐟 Farms help keep clean water and salmon habitat.

Compare

Imports and Exports



Export



Sell to another country
WA ships apples, wheat, and more

Import



Buy from another country
Like coffee and bananas

Learn

Whatcom Ag Businesses



🌷 Nurseries, 👩‍🌾 farm and garden stores, 🩺 vets, 🏭 processors.

📝 Your slides: name, what they do, ag jobs, why they matter.

🚌 Tour de Whatcom visits real farms.

Wrap-Up

Recap



Ag terms

crop, livestock, inputs, tech



Washington

300 crops, apples #1



Whatcom

berries, dairy, seed potatoes



Trade

import vs. export

Wrap-Up

Exit Ticket



1️⃣ Define agriculture in your own words.

2️⃣ Name Washington's top 3 commodities.

3️⃣ Name 2 things Whatcom County is known for.