

Coder	Text/Program Title	Author(s) or Publisher	Date Published	Grade Level
[1]	[2]	[3]	[4]	[5]

[A] General Agriculture	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Agrarian						
2 Agricultural production						
3 Agricultural system						
4 Agriculturalist						
5 Agriculture						
6 Barn/Barnyard						
7 Basic needs/food, clothing, shelter						
8 Biosphere						
9 Biosystems						
10 By-products						
11 Commodities						
12 Consumer goods						
13 Consumers						
14 Distribution						
15 Economics						
16 Farm						
17 Farm-factory-table/farm to table						
18 Farmer						
19 Farmers market						
20 Fields						
21 Food & Drug Administration						
22 Food & Fiber System						
23 Free Trade						
24 Geosphere						
25 Globalization & agriculture						
26 Grocery stores						
27 Import/export						
28 Marketing						
29 Native species						
30 Non-native species						
31 Organic						
32 Pastures/Ranges						
33 Processing						
34 Public policy						
35 Ranch						
36 Raw products						
37 Regulation						
38 Rural						
39 Storage/Packaging						
40 Surplus						
41 Trade/barter						
42 Transportation						
43 U.S. Dept of Agriculture						
44 Value-added						
45 Web of life						
46 Wildlife/wildlife habitat						

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[B] Food & Nutrition	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Affordable food supply						
2 Amino acids						
3 Breads/Cereals/Grains/Wheat						
4 Burning calories						
5 Calories						
6 Carbohydrates						
7 Chemicals in food						
8 Diet						
9 Digestion/Digest						
10 Fats/Nuts/Oils						
11 Fatty acids						
12 Fermentation						
13 Food						
14 Food chains/Food webs						
15 Food choices						
16 Food guide pyramid						
17 Food preparation						
18 Food production						
19 Food safety						
20 Food science						
21 Food shortage						
22 Food storage/packaging						
23 Food supply						
24 Food surplus						
25 Food-labeling						
26 Governmental regulations						
27 Health/Healthy eating/habits						
28 Hunger/Starvation						
29 Ingredients						
30 Lipids						
31 Minerals						
32 Non-perishables						
33 Nucleic acids						
34 Nutrient/Nutrient-rich foods						
35 Nutrition/Nutritional content						
36 Perishables						
37 Preservatives						
38 Processed foods						
39 Protein						
40 Salt						
41 Shelf-life						
42 Spices						
43 Spoilage						
44 Sugars						
45 Vitamins						
46 Where food comes from						
47 Wine						
48 Yeast						

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[C] Plants, Agronomy, & Horticulture	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Agronomy/botany/botanist						
2 Algae						
3 Annual/Perennial plants						
4 Bacteria						
5 Bees/Honey/Apiary						
6 Branches/leaves/stems/blooms						
7 Carbon dioxide						
8 Compost						
9 Cover crops						
10 Crop rotation						
11 Crops/cash crops						
12 Cultivation						
13 Domestication of plants						
14 Drip irrigation/Irrigation						
15 Fertilizers						
16 Flowers						
17 Foliage						
18 Food (plants produce own)						
19 Fruits/Vegetables/Produce						
20 Fungi/Mushrooms						
21 Gardens/Gardeners/Greenhouse						
22 Germination						
23 Grass						
24 Harvesting/Harvest						
25 Hay/Straw						
26 Hedgerows						
27 Herbs						
28 Horticulture						
29 Humus						
30 Landscape designs						
31 Maize/corn						
32 Manure/waste						
33 Nutrient/nutrient-rich/fertile soil						
34 Ornamental plants/shrubs/bushes						
35 Photosynthesis						
36 Plants/Plant matter						
37 Plant pathology						
38 Plant varieties						
39 Planting/sowing/growing plants						
40 Plowing/tillage/tilling						
41 Pollen/Pollination						
42 Roots/Root systems/tubers						
43 Salinity of soil or water						
44 Seed						
45 Soil/dirt (for growing plants)						
46 Sprouting						
47 Sunlight (for plant growth)						
48 Tobacco						
49 Vegetation						
50 Water tolerance of plants						
51 Weeds						

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[D] Livestock, Meat, & Poultry	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Animal husbandry						
2 Animal by-products						
3 Animal welfare						
4 Animals						
5 Birds						
6 Bison/Buffalo						
7 Breeding stock for meat						
8 Breeds of animals						
9 Cattle						
10 Chicken - broilers, layers						
11 Cows - beef, veal						
12 Domestication of animals						
13 Eggs						
14 Ethologist						
15 Feed (meat animals)						
16 Fish						
17 Fisheries						
18 Fishing/fisherman						
19 Goats - meat						
20 Grazing - meat						
21 Hay						
22 Herd/Flock						
23 Herdsmen						
24 Livestock - meat						
25 Mammals						
26 Meat						
27 Migration						
28 Pigs - pork, swine, hogs						
29 Ranches						
30 Turkeys						
31 Veterinarian						

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[E] Dairy	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Breeding stock for dairy						
2 Calcium						
3 Cheese						
4 Cows - milkers						
5 Cream						
6 Dairy/milk products						
7 Enzymes						
8 Feed (dairy animals)						
9 Goats - milkers						
10 Grazing - dairy						
11 Homogenization						
12 Livestock - dairy						
13 Milk						
14 Milk processing						
15 Milk production						
16 Milk storage						
17 Milkfat						
18 Pasteurization						
19 Proteins in milk						
20 Raw milk						
21 Rennet						
22 Sheep - dairy						
23 Yogurt						

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[F] Work Animals & Machines	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Animal power						
2 Blacksmith						
3 Combustion engine						
4 Cotton gin						
5 Donkeys/Mules						
6 Equipment for agriculture						
7 Equipment repair agriculture						
8 Farm machinery						
9 Farrier						
10 Horsepower						
11 Horses						
12 Levers/pulleys for agriculture						
13 Ox/oxen						
14 Plow						
15 Reaper						
16 Simple machines						
17 Simple tools/tool						
18 Tools						
19 Tractor						

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[G] Fiber	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Alpacas						
2 Bamboo						
3 Building homes/structures						
4 By-products from fibers						
5 Cloth						
6 Clothing/Clothes						
7 Cotton						
8 Fiber/textile						
9 Goats - fiber						
10 Linen						
11 Llamas						
12 Paper						
13 Paper pulp production						
14 Rubber trees						
15 Sap						
16 Sheep - fiber						
17 Shelter						
18 Silk						
19 Timber/Lumber						
20 Trees						
21 Wood						
22 Wool						

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[H] Land & Natural Resources	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Acre/section/hectare						
2 Arable land						
3 Deforestation						
4 Deserts						
5 Draining of wetlands						
6 Drought						
7 Expansion						
8 Flood plains/flooding						
9 Forests						
10 Geography/Topography						
11 Grasslands						
12 Ground water						
13 Habitat						
14 Lakes/ponds						
15 Land/landforms						
16 Landslides/mudslides						
17 Land use/policies/clearing						
18 Landscapes/lawns						
19 Marine ecosystems/Oceans/Seas						
20 Natural resource management						
21 Natural resources						
22 Non-renewable energy/resources						
23 Overgrazing						
24 Rain/rainwater/rainfall						
25 Rainforests						
26 Range lands						
27 Recreational areas/parks/yards						
28 Renewable energy/resources						
29 Reservoirs						
30 Resource management						
31 Rivers/streams						
32 Scarce resources						
33 Soil (as natural resource/formation)						
34 Soil conservation						
35 Soil erosion/erosion						
36 Soil management						
37 Soil moisture monitoring						
38 Soil movement						
39 Soil quality/soil pollution						
40 Subsoil						
41 Sunlight (as a natural resource)						
42 Topsoil						
43 Water/water resources						
44 Water conservation						
45 Water cycle						
46 Water quality						
47 Watershed						
48 Wetlands						



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[I] Environment & Sustainability	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Acid rain						
2 Agricultural runoff						
3 Air management						
4 Air pollution						
5 Air quality/Air						
6 Alternative energy sources						
7 Anthropogenic changes						
8 Carbon dioxide and climate change						
9 Chemicals						
10 Climate						
11 Climate Change						
12 Climate stabilization						
13 Conservation/Preservation						
14 Contaminants						
15 Depletion of fish population						
16 Ecological interactions						
17 Ecologist/ecology						
18 Ecosystem						
19 Ecosystem degradation						
20 Ecosystem disruptions						
21 Ecosystem diversity						
22 Ecosystem management						
23 Ecosystem regeneration						
24 Ecosystem services						
25 Energy						
26 Energy conservation						
27 Environment						
28 Environmental challenges						
29 Environmental degradation						
30 Environmental factors						
31 Environmental impacts						
32 Environmental Protection Agency						
33 Greenhouse effect/gases						
34 Habitat destruction						
35 Overexploitation						
36 Pollutants/pollution						
37 Reducing CO2						
38 Regulation of fishing						
39 Resource depletion/extraction						
40 Stewardship						
41 Sustainability						
42 Sustainable agriculture						
43 Temperature						
44 Water management						
45 Water pollution						
46 Water purification						
47 Weather/weather patterns						

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[J] Agriscience & Biotechnology	Knowledge	Skills	Attitudes/Beliefs	Total		
				K	S	A/B
1 Adaptation						
2 Agribusiness						
3 Agricultural education						
4 Agricultural engineers						
5 Agricultural innovations						
6 Agricultural technology						
7 Agriculturally literate/literacy						
8 Alteration of gene expression						
9 Artificial selection						
10 Backcrossing						
11 Biochemicals						
12 Biodiversity						
13 Bioengineering						
14 Biofeuls						
15 Biologically engineered foods						
16 Bioplastics						
17 Bioresearchers						
18 Biotechnology						
19 Cloning						
20 Crossbreeding						
21 Developing alternate energy sources						
22 Disease						
23 Disease-resistant						
24 DNA						
25 Embryo transplanting						
26 Fertilization						
27 Food irradiation						
28 Fungicide						
29 Future energy sources						
30 Gene mutation/programming						
31 Gene-splicing						
32 Genetically engineered/modified (gmo)						
33 Genetics/Geneticist/Genes						
34 Grafting						
35 Herbicide/Herbicide resistant						
36 Hybrids						
37 Hydroponics						
38 Insects						
39 Medicines						
40 Microbes/microorganisms						
41 Microbiology						
42 Parasites						
43 Pests/Pest management						
44 Pesticide						
45 Recycling						
46 Research and development						
47 Scientific advancements						
48 Synthetic biology						
49 Technology-health/environment						
50 Technological systems						