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				1		
45 Web of life						
46 Wildlife/wildlife habitat				T		

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

[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						1
42 Spices					-	+
43 Spoilage					-	+
44 Sugars					-	+
45 Vitamins					-	-
46 Where food comes from					-	-
47 Wine					-	-
48 Yeast						

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

	[C] Plants, Agronomy, &	Knowledge Skills		Attitudes/Beliefs	Total		
1 Agronomy/botanly/botanlst 2 Algae 3 Annual/Perennial plants 4 Bacteria 5 Bees/Honey/Apiary 6 Branches/leowes/stems/blooms 7 Carbon dixode 8 Compact 9 Cover crops 10 Crop rotation 11 Crops/cash crups 12 Cultivation 13 Domestication of plants 14 Drip irrigation/frigation 15 Fortikers 16 Flowers 17 Foliage 18 Food [plants produce cown) 19 Fruits/Vegetables/Produce 20 Pang/Mashrooms 21 Cardens/Greenhouse 22 Germination 23 Grass 24 Harvesting/flarvest 24 Harvesting/flarvest 25 Hay/Straw 26 Hedgerows 27 Herbs 28 Horticulture 29 Hums 30 Landscape designs 31 Marge/corn 31 Marge/corn 32 Manure/waste 33 Martient/mutrient-rich/fertile soil 34 Poolsynchesis 35 Plants/produces 36 Plants/produces 37 Plants 38 Plants/produce 39 Hums 40 Landscape designs 41 Landscape designs 41 Landscape designs 42 Harvesting/flarvest 43 Marure/waste 44 Ormanental plants/struks/bushes 45 Plants/produces 46 Plants/produces 47 Plants nather waste designs 48 Plants/produces 49 Plants produces 40 Plants/produces 40 Plants/produces 41 Landscape designs 41 Landscape designs 41 Landscape designs 42 Marure/waste 43 Marure/waste 44 Ormanental plants/struks/bushes 46 Plants/produces 47 Plant pathology 48 Plant varieties 48 Soil/Juffic (for plant growth) 49 Vegetation 49 Vegetation 50 Water toterance of plants	Horticulture				K	S	A/B
2 Ajgae	1 Agronomy/hotany/hotanist						
Manual/Perennial plants	The state of the s						+
Secretary							+
5 Bese/Honey/Aplany 6 Branches/Revery/stems/blooms 7 Carbon dioxide 8 Compost 9 Cover crops 10 Crop rotation 11 Crops/cash crops 12 Cultivation 13 Domestication of plants 15 Pertilizers 16 Flowers 17 Foliage 18 Food (plants produce own) 19 Fruits/Vegetables/Produce 20 Fung/Mushrooms 21 Gardens/Gardeners/Greenhouse 22 Germination 23 Grass 24 Harvesting/Harvest 25 Hay/Straw 26 Heigerows 27 Herbs 28 Horiculture 29 Humus 30 Landscape designs							†
Garbon dioxide							+
Campost Compost Comp							
Compost							
Crops							
10 Crops/cash crops							
11 Crops/cash crops	•						
12 Cultivation							
13 Domestication of plants	The state of the s						
14 Drip irrigation/Irrigation							
15 Fertilizers					Ì	İ	
16 Flowers							
17 Foliage					Ì	İ	
18 Food (plants produce own)							
19 Fruits/Vegetables/Produce							
20 Fungi/Mushrooms							
21 Gardens/Gardeners/Greenhouse	The state of the s						
22 Germination	The state of the s						
23 Grass Investing/Harvest 24 Harvesting/Harvest Investing/Harvest 25 Hay/Straw Investing/Harvest 26 Hedgerows Investing/Harvest 27 Herbs Investing/Harvest 28 Horticulture Investing/Harvest 29 Humus Investing/Harvest 30 Landscape designs Investing/Harvest 31 Maize/corn Investing/Harvest 32 Manure/waste Investing/Harvest 33 Nutrient/nutrient-rich/fertile soil Investing/Harvest 34 Ornamental plants/shrubs/bushes Investing/Harvest 35 Photosynthesis Investing/Harvest 36 Plants/Plant matter Investing/Harvest 37 Plant pathology Investing/Harvest 38 Plant varieties Investing/Harvest 39 Planting/sowing/growing plants Investing/Harvest 40 Plowing/tillage (rilling) Investing/Harvest 41 Pollen/Pollination Investing/Harvest 42 Roots/Root systems/tubers Investing/Harvest 43 Salinity of soil or water Investing/Harvest 45 Soil/diff (for growing plants) Investing/Harvest 46 Sprouting <	<u> </u>						
24 Harvesting/Harvest							
25 Hay/Straw 6 Hedgerows 6 Hedgerows 6 Hedgerows 6 Hedgerows 6 Hedgerows 6 Hedgerows 7 Herbs 7 Herbs 7 Herbs 7 Herbs 7 Herbs 7 Herbs 8 Horticulture 8 Horticulture 8 Horticulture 9 Humus 9 Humus <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
26 Hedgerows Herbs 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 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							
27 Herbs Horticulture 28 Horticulture	The state of the s						
29 Humus <							
30 Landscape designs	28 Horticulture						
31 Maize/corn Manure/waste ————————————————————————————————————	29 Humus						
31 Maize/corn Manure/waste ————————————————————————————————————	30 Landscape designs						
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							
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							
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							
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							
36 Plants/Plant matter 9 37 Plant pathology 9 38 Plant varieties 9 39 Planting/sowing/growing plants 9 40 Plowing/tillage/tilling 9 41 Pollen/Pollination 9 42 Roots/Root systems/tubers 9 43 Salinity of soil or water 9 44 Seed 9 45 Soil/dirt (for growing plants) 9 46 Sprouting 9 47 Sunlight (for plant growth) 9 48 Tobacco 9 49 Vegetation 9 50 Water tolerance of plants 9							
37 Plant pathology 9 38 Plant varieties 9 39 Planting/sowing/growing plants 9 40 Plowing/tillage/tilling 9 41 Pollen/Pollination 9 42 Roots/Root systems/tubers 9 43 Salinity of soil or water 9 44 Seed 9 45 Sprouting 9 47 Sunlight (for growing plants) 9 48 Tobacco 9 49 Vegetation 9 50 Water tolerance of plants 9							
38 Plant varieties639 Planting/sowing/growing plants640 Plowing/tillage/tilling641 Pollen/Pollination642 Roots/Root systems/tubers743 Salinity of soil or water744 Seed745 Soil/dirt (for growing plants)746 Sprouting747 Sunlight (for plant growth)748 Tobacco749 Vegetation650 Water tolerance of plants6							
40 Plowing/tillage/tilling641 Pollen/Pollination642 Roots/Root systems/tubers643 Salinity of soil or water744 Seed745 Soil/dirt (for growing plants)746 Sprouting747 Sunlight (for plant growth)748 Tobacco749 Vegetation750 Water tolerance of plants6	The state of the s						
40 Plowing/tillage/tilling641 Pollen/Pollination642 Roots/Root systems/tubers643 Salinity of soil or water744 Seed745 Soil/dirt (for growing plants)746 Sprouting747 Sunlight (for plant growth)748 Tobacco749 Vegetation750 Water tolerance of plants6	39 Planting/sowing/growing plants						
41 Pollen/Pollination							
42 Roots/Root systems/tubers643 Salinity of soil or water644 Seed745 Soil/dirt (for growing plants)746 Sprouting747 Sunlight (for plant growth)748 Tobacco749 Vegetation750 Water tolerance of plants8							
43 Salinity of soil or water ————————————————————————————————————	The state of the s						
44 Seed ————————————————————————————————————							
45 Soil/dirt (for growing plants) 46 Sprouting 47 Sunlight (for plant growth) 48 Tobacco 49 Vegetation 50 Water tolerance of plants							
46 Sprouting 47 Sunlight (for plant growth) 48 Tobacco 49 Vegetation 50 Water tolerance of plants							
47 Sunlight (for plant growth) 48 Tobacco 49 Vegetation 50 Water tolerance of plants	The state of the s						T
48 Tobacco							
49 Vegetation 50 Water tolerance of plants							
50 Water tolerance of plants					Ì		
					Ì		

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

[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						

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

[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		<u> </u>				
21 Rennet						
22 Sheep - dairy		<u> </u>				
23 Yogurt						

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

[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 agricutlure						
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						

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

[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							

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

[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						

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

Acid rain	[I] Environment & Sustainability	Knowledge	Skills	Attitudes/Beliefs	Total		
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 sabilization 13 Conservation/Preservation 14 Contaminants 15 Depletion of fish population 16 Ecological interactions 17 Ecologisty (ecology 18 Ecosystem 19 Ecosystem degradation 20 Ecosystem diversity 22 Ecosystem diversity 23 Ecosystem diversity 24 Ecosystem management 25 Energy 26 Energy 27 Energy 28 Energy 28 Energy 29 Environmental challenges 30 Environmental degradation 31 Environmental degradation 32 Ecosystem diversity 33 Greenhouse erivers 34 Environmental degradation 35 Overexplotation 36 Environmental degradation 37 Environmental degradation 38 Environmental degradation 39 Environmental degradation 30 Environmental degradation 30 Environmental financis 31 Environmental financis 32 Environmental financis 33 Greenhouse effect/gases 34 Hahitat destruction 36 Pollutans/pollution 37 Reducing CO2 38 Regulation of fishing 38 Resource depletion/extraction 49 Steawardship 40 Steawardship 41 Sustainable agriculture 41 Water management 45 Water purification 46 Water purification 46 Water purification 46 Water purification	[-]				K	S	A/B
2 Agricultural runoff	1 Acid rain						
3 Air management							
A altr pollution							
6 Alternative energy sources 7 Anthropogenic changes 8 Carbon dioxide and climate change 9 Chemicals 10 Climate 11 Climate Change 11 Climate stabilization 13 Conservation/Preservation 14 Contaminants 15 Depletion of fish population 16 Ecological interactions 17 Ecologist/Cecology 18 Ecosystem degradation 19 Ecosystem disruptions 20 Ecosystem management 21 Ecosystem management 22 Ecosystem regeneration 23 Ecosystem regeneration 24 Ecosystem regeneration 25 Energy 26 Energy Source-reading Source-re							
6. Alternative energy sources 7. Anthropogenic changes 8. Carbon dioxide and climate change 9. Chemicals 11. Climate 12. Climate Change 13. Conservation Preservation 14. Contaminants 15. Depletion of fish population 16. Ecological interactions 17. Ecologist/ceology 18. Ecosystem 19. Ecosystem degradation 19. Ecosystem degradation 20. Ecosystem interpretions 21. Ecosystem interpretions 22. Ecosystem management 23. Ecosystem management 24. Ecosystem regeneration 25. Energy 26. Energy conservation 27. Environmental challenges 28. Environmental challenges 29. Environmental dishlenges 30. Environmental factors 31. Environmental factors 32. Environmental factors 33. Environmental factors 34. Habitat destruction 35. Overexploitation 36. Pollutans/pollution 37. Reducing CO2 38. Regulation of fishing 39. Resource depletion/extraction 40. Stewardship 41. Sustainable agriculture 42. Sustainable agriculture 43. Water management 44. Water management 45. Water management 46. Water purification	-						
Authropogenic changes							
8							
9 Chemicals							
10 Climate							
11 Climate Change							
13 Conservation/Preservation							
13 Conservation/Preservation	-						
14 Contaminants							
15 Depletion of fish population	·						
16 Ecological interactions							
17 Ecologist/ecology							
18 Ecosystem degradation							
19 Ecosystem disruptions 20 Ecosystem disruptions 21 Ecosystem management 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 purification							
20 Ecosystem disruptions 21 Ecosystem management 22 Ecosystem meanagement 23 Ecosystem regeneration 24 Ecosystem services 25 Energy 26 Energy	-						
21 Ecosystem diversity							
22 Ecosystem management 23 Ecosystem regeneration 24 Ecosystem services 25 Energy 26 Energy 27 Environment 28 Environmental challenges 29 Environmental degradation 30 Environmental factors 31 Environmental impacts 32 Environmental Protection Agency 33 Greenhouse effect/gases 44 Habitat destruction 55 Overexploitation 67 Pollutants/pollution 78 Reducing CO2 79 Resource depletion/extraction 79 Resource depletion/extraction 80 Resource depletion/extraction 81 Sustainability 82 Sustainable agriculture 83 Temperature 84 Water management 85 Water pollution 86 Water purification 87 Reducing CO2 88 Regulation of fishing 89 Resource depletion/extraction 80 Sustainability 81 Sustainability 83 Sustainable agriculture 84 Water management 85 Water pollution							
23 Ecosystem regeneration 24 Ecosystem services 25 Energy 26 Energy conservation 27 Environment 28 Environmental challenges 29 Environmental degradation 30 Environmental impacts 31 Environmental Protection Agency 32 Environmental Protection Agency 33 Greenhouse effect/gases 44 Habitat destruction 45 Voerexploitation 47 Reducing CO2 48 Regulation of fishing 49 Resource depletion/extraction 40 Stewardship 41 Sustainability 42 Sustainable agriculture 43 Temperature 44 Water management 45 Water pollution 46 Water purification							
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 Sustainable agriculture 42 Sustainable agriculture 43 Temperature 44 Water management 45 Water purification							
25 Energy 26 Energy conservation 27 Environment							
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	*						
27 Environment 28 Environmental challenges 29 Environmental degradation							
28 Environmental challenges 9 Environmental degradation 30 Environmental factors 9 Environmental impacts 31 Environmental impacts 9 Environmental Protection Agency 32 Environmental Protection Agency 9 Environmental Protection Agency 33 Greenhouse effect/gases 9 Environmental impacts 34 Habitat destruction 9 Environmental factors 35 Overexploitation 9 Environmental factors 36 Pollutants/pollution 9 Environmental factors 37 Reducing CO2 9 Environmental factors 38 Regulation of fishing 9 Environmental factors 39 Resource depletion/extraction 9 Environmental factors 40 Stewardship 9 Environmental factors 41 Sustainability 9 Environmental factors 42 Sustainabile agriculture 9 Environmental factors 43 Temperature 9 Environmental factors 44 Water management 9 Environmental factors 45 Water pollution 9 Environmental factors							
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							
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							
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							
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							
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	· ·						
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							
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							
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							
38 Regulation of fishing 9 Resource depletion/extraction 40 Stewardship 9 Stewardship 41 Sustainability 9 Sustainable agriculture 42 Sustainable agriculture 9 Sustainable agriculture 43 Temperature 9 Sustainable agriculture 44 Water management 9 Sustainable agriculture 45 Water pollution 9 Sustainable agriculture 46 Water purification 9 Sustainable agriculture	, ·						
39 Resource depletion/extraction 40 Stewardship 41 Sustainability 42 Sustainable agriculture 43 Temperature 44 Water management 45 Water pollution 46 Water purification			1				\vdash
40 Stewardship 41 Sustainability 42 Sustainable agriculture 43 Temperature 44 Water management 45 Water pollution 46 Water purification			 				\vdash
41 Sustainability 42 Sustainable agriculture 43 Temperature 44 Water management 45 Water pollution 46 Water purification							
42 Sustainable agriculture 43 Temperature 44 Water management 45 Water pollution 46 Water purification							
43 Temperature			+				+
44 Water management 45 Water pollution 46 Water purification							
45 Water pollution 46 Water purification	-						
46 Water purification							-
	-		+				-
	46 Water purification 47 Weather/weather patterns						+

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

III Agriccionea & Diatachnalago	Knowledge Skills		Attitudes/Beliefs		Total		
[J] Agriscience & Biotechnology	Knowledge	Kilowieuge Skilis					
				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	<u> </u>		1				