Idaho CTE

Exploratory Agriculture, Food, and Natural Resource (2026)

PRINCIPLES OF AGRICULTURE EDUCATION 1.0

1. The Three Circles of Agriculture Education 1.1

1 Define the value, role, and opportunities provided through career technical student organizations (i.e., FFA). 1.1.1

2 Investigate careers exploration and skill development. 1.1.2

3 Identify opportunities to engage in school-based agricultural education and agricultural literacy. 1.1.3

4 Engage in foundational components of a Supervised Agricultural Experience (SAE). 1.1.4

2. Agriculture in Everyday Life 1.2

5 Identify primary industries and pathways in agriculture, food, and natural resources. 1.2.1

6 Describe how agriculture and natural resources contribute to local, state, national, and global economies and food supplies. 1.2.2

7 Recognize the role of technology in agriculture, food, and natural resources across industries. 1.2.3

EXPLORING AGRICULTURE INDUSTRY SECTORS 2.0

1. Animal Science 2.1

8 Explore livestock and companion animal industries. 2.1.1

9 Identify livestock species and breeds. 2.1.2

10 Determine animal roles and uses in agriculture and society. 2.1.3

2. Plant Science 2.2

11 Identify basic plant structures and their roles within the plant. 2.2.1

12 Describe basic needs of plant growth from germination to soil fertility. 2.2.2

13 Identify common agricultural crop industries and their uses. 2.2.3

Natural Resources/Environmental Management 2.3

14 Explore responsible stewardship of land, water, plants, animals, and natural resources. 2.3.1

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15 Identify renewable and nonrenewable resources and how they relate to everyday life. 2.3.2

4. Agriculture Power, Structural, and Mechanical Systems 2.4

16 Identify common agricultural tools, equipment, and technologies. 2.4.1

17 Create a project plan using appropriate engineering design processes. 2.4.2

18 Apply measurements to real-world agricultural applications. 2.4.3

5. Edible Agriculture 2.5

19 Describe how edible agricultural products are grown, produced, and distributed within food systems. 2.5.1

20 Recognize the connection between agriculture and human nutrition. 2.5.2

FOUNDATIONAL SKILLS IN AGRICULTURE SCIENCE & TECHNOLOGY 3.0

1. Agricultural Science and Laboratory Skills 3.1

21 Demonstrate the proper use of personal protective equipment (PPE) related to classroom labs. 3.1.1

22 Follow written and verbal lab procedures. 3.1.2

23 Describe basic lab safety rules and emergency protocols for lab activities. 3.1.3

2. Emerging Technologies in Agriculture 3.2

24 Describe how innovation and technology improve productivity, sustainability, and resource management. 3.2.1

25 Explore the importance of biotechnology as it relates to feeding a growing world population. 3.2.2