



### Agriscience 1 (AGS230) Semester 2 Final Assessment Blueprint

Year Created: 2024-2025

Subject: Career & Technical Education

Method of Delivery: Online

Administration Window: May Common Finals

#### Item Types Included

Type	Number of Items	Description
MC	28	Multiple Choice - Select one answer

#### Resources

[Agriscience 1 Course Sequence](#)

#### Standards At-A Glance

Standard	Number of Items	Standard Description
CTE [2108].AGRI.9-12.A.1.3	1	Examine how a stable agricultural sector supports a nation of food security
CTE [2108].AGRI.9-12.A.7.1	3	Describe plant anatomy and the functions of plant structures (e.g., root, stem, leaf, flower)
CTE [2108].AGRI.9-12.A.7.2	2	Classify plants according to taxonomic systems, use, structure, and life span
CTE [2108].AGRI.9-12.A.7.3	1	Describe basic factors in plant growth (e.g., light, water, climate, temperature, nutrients)
CTE [2108].AGRI.9-12.A.7.4	2	Apply knowledge of plant physiology and energy conversion to plant systems (e.g., photosynthesis, respiration, transpiration)
CTE [2108].AGRI.9-12.A.7.6	1	Demonstrate plant germination, growth, and development
CTE [2108].AGRI.9-12.A.7.7	2	Investigate changes in growing conditions and the impact on plant growth and development (i.e., light, gravity, touch, water, heat, etc.)
CTE [2108].AGRI.9-12.A.8.1	5	Analyze the nutritional needs of plants
CTE [2108].AGRI.9-12.A.8.2	4	Research common nutrient deficiency symptoms and treatment options (i.e., fertilizers, soil amendments, crop rotation, etc.)
CTE [2108].AGRI.9-12.A.8.3	4	Prepare grow media for use in plant systems (i.e., soil, water, vermiculite, coconut core, etc.)
CTE [2108].AGRI.9-12.A.8.4	1	Analyze soil conditions to make nutritional decisions (i.e., pH meter, soil test kits, soil probes, etc.)
CTE [2108].AGRI.9-12.A.8.7	1	Investigate methods for asexual reproduction of plants (i.e., propagation, grafting, layering, tissue culture, plant hormones, etc.)
CTE [2108].AGRI.9-12.A.8.8	1	Demonstrate plant propagation techniques (e.g., sexual and asexual)

\*Some items may be tagged to more than one standard.