



2019+ WY-ALT Assessment Blueprints Grade 4 Science

Life Systems [9-11 Items; 22.5-27.5%]

4.A.S.1.1	Students demonstrate which features of living organisms serve specific functions.
4.A.S.1.2	Students describe how plants and animals resemble their parents.
4.A.S.1.3	Students demonstrate which features of living organisms serve specific functions in survival within different habitats.

Earth and Space Systems [9-11 Items; 22.5-27.5%]

4.A.S.1.4	Students describe and compare observable characteristics of water, air, rocks, and soil.
4.A.S.1.5	Students describe gradual changes to the Earth's surface.

Physical Systems [13-15 Items; 32.5-37.5%]

4.A.S.1.6	Students demonstrate that heating or cooling can change water between a solid or liquid by measuring and recording different observable physical properties.
4.A.S.1.7	Students demonstrate that pushing or pulling can change the position of objects.

Science as Inquiry [5-7 Items; 12.5-17.5%]

4.A.S.2.2.a	Students ask questions about objects, organisms or events in the environment.
4.A.S.2.2.b	Students conduct simple investigations using simple equipment and tools to collect data.
4.A.S.2.3	Students identify safety symbols and the associated concept.

40 Items in Total



2019+ WY-ALT Assessment Blueprints Grade 8 Science

Life Systems [10-12 Items; 25-30%]

8.A.S.1.1	Students relate different organ systems with their specialized function.
8.A.S.1.2	Students describe the traits offspring inherit from their parents.
8.A.S.1.3	Students describe interconnectedness of diverse organisms within an ecosystem.

Earth and Space Systems [10-12 Items; 25-30%]

8.A.S.1.4	Students describe Earth's features in relation to other objects in the Solar System.
8.A.S.1.5	Students demonstrate processes which are evidence of the formation and development of the Earth.

Physical Systems [11-13 Items; 27.5-32.5%]

8.A.S.1.6	Students identify physical characteristics of a substance.
8.A.S.1.7	Students demonstrate that pushing and pulling can change the position, direction, and motion of objects.

Science as Inquiry [5-7 Items; 12.5-17.5%]

8.A.S.2.2.a	Students ask questions about objects, organisms or events in the environment.
8.A.S.2.2.b	Students conduct simple investigations using simple equipment and tools to collect data.
8.A.S.2.3	Students identify safety symbols and the associated concept.

40 Items in Total



2019+ WY-ALT Assessment Blueprints High School Science

Life Systems [12-14 Items; 30-35%]

11.A.S.1.1	Students identify activities taking place in an organism related to metabolic activities in cells.
11.A.S.1.2	Students demonstrate the connections between natural selection and survival.
11.A.S.1.3	Students demonstrate the inter-relationships of organisms and the ecosystem (including the ecosystem concept and competition for resources).

Earth and Space Systems [7-9 Items; 17.5-22.5%]

11.A.S.1.4	Students describe a model of Earth as a closed system.
11.A.S.1.5	Students recognize the time scale involved in the gradual changes which occur during planetary evolution.

Physical Systems [12-14 Items; 30-35%]

11.A.S.1.6	Students distinguish between chemical and physical changes.
11.A.S.1.7	Students describe an object in motion in terms of distance and time.

Science as Inquiry [5-7 Items; 12.5-17.5%]

11.A.S.2.2.a	Students ask questions about objects, organisms or events in the environment.
11.A.s.2.2.b	Students collect, organize, and compare data related to a scientific question through measurement or observation given a science-based scenario.
11.A.S.2.3	Students identify safety symbols and the associated concept.

40 Items in Total