

Unit Standards

Directions: Copy the Essential Knowledge sentence (Ex: 2.C.2), then write the statements for the letters and numbers under the EK statement (Ex: b1-3).

Unit 1: Behavior/Ecology

- 2.C.2: a
- 2.E.2: b
- 2.E.3: a1-2, b3-4
- 3.E.1: a, b1-2, c1-2

- 1.C.1: b
- 2.A.1: d2, e, f
- 2.A.3: a1-2
- 2.D.1: b-c
- 2.D.3: b
- 3.E.1: b1 (herbivory)
- 4.A.5: a, b, c1-4
- 4.A.6: a-d, e1-2, f1-2, g
- 4.B.3: a1-3, b, c
- 4.B.4: a, b1
- 4.C.2: a (herbivory), b (climate change)
- 4.C.3: a-b
- 4.C.4: a-b

Unit 2: Evolution

- 1.A.1: a-h
- 1.A.2: a-d
- 1.A.3: a-b
- 1.A.4: a, b1-4
- 1.B.2: a-d
- 1.C.1: a-b
- 1.C.2: a-b
- 1.C.3: a-b
- 1.D.1: a1-5
- 1.D.2: a1-2, b1-2
- 2.A.2: e
- 2.D.2: a, c
- 2.E.3: b3
- 3.C.1: d1
- 3.E.1: c1-2
- 4.A.6: g
- 4.C.1: b1
- 4.C.2: b
- 4.C.3: b-c

Unit 3: Biochemistry

- 1.B.1: a1-2
- 1.D.1: a2-3
- 1.D.2: b1-2
- 2.A.3: a1-3
- 4.A.1: a1-4, b1-3

Unit 4: Cells

- 1.B.1: a3, b
- 2.A.2: h
- 2.A.3: b1-2
- 2.B.1: a, b1-4, c1-2
- 2.B.2: a1-3, b1-2, c1-2
- 2.B.3: a-c
- 2.D.1: a
- 2.D.2: b (digestive and nitrogenous waste removal), c (excretory systems and osmoregulation)
- 2.D.3: a
- 3.D.2: a (plasmodesmata)
- 4.A.2: a, b1-2, c1, d1-3, e, f, g1-3
- 4.A.4: a (stomach and kidney)
- 4.B.2: a1-3
- 4.C.1: a (phospholipids)

Unit 5: Cell Communication, Nervous and Endocrine Systems

- 2.C.1: a-c
- 2.D.3: a (dehydration)
- 2.E.2: c
- 3.B.2: a-b
- 3.D.1: a-d
- 3.D.2: a, b, c1
- 3.D.3: a1-2, b1-3
- 3.D.4: a
- 3.E.2: a1-3, b1-3, c1-3, d
- 4.A.4: b (nervous)

Unit 6: Energetics and Enzymes

- 2.A.1: a1-3, b1-3, c, d1,3-5
- 2.A.2: a1-2, b1-2, c, d1-5, e, f1-4, g1-5, h
- 2.C.1: a (temperature regulation)
- 2.C.2: a (shivering)
- 2.D.2: b (gas exchange and respiratory systems), c (circulatory systems and thermoregulation)
- 4.A.4: b (respiratory)
- 4.A.6: a
- 4.B.1: a, b1-2, c, d
- 4.B.2: a2 (gas exchange and circulation)
- 4.C.1: a (hemoglobin and chlorophyll)

Unit 7: Cell Division

- 2.D.1: a (cell density)
- 3.A.2: a1-5, b1-4, c1-5
- 3.B.2: a (cytokines), b (p53 gene)
- 3.C.2: c
- 4.C.2: a (opposite mating types in fungi)

Unit 8: Heredity

- 3.A.1: d
- 3.A.2: c5
- 3.A.3: a, b1-3, c, d
- 3.A.4: a1, b, c1-2
- 3.C.1: a1, b1, c1-2, d
- 4.C.2: a
- 4.C.3: b

Unit 9: Molecular Genetics, Gene regulation, and DNA technology

- 1.B.1: a1
- 2.C.1: a (operons)
- 2.E.1: a, b1-6, c
- 3.A.1: a1-5, b1-4, c1-4, d
- 3.B.1: a1-2, b1-6, c1-3, d
- 3.B.2: b (gene expression, morphogens, and HOX genes)
- 3.C.2: a
- 4.A.3: a-c
- 4.C.1: b2

Unit 10: Virus/Bacteria and Immune System

- 2.C.2: a (chemotaxis)
- 2.D.3: a (immunological responses)
- 2.D.4: a, b1-6
- 3.A.1: a6, e, f
- 3.B.2: a (cytokines)
- 3.C.2: b
- 3.C.3: a1-6, b1-2
- 3.D.2: a (immune cells)
- 4.C.1: a (MHC proteins and antibodies)

Unit 11: Plants

- 2.C.1: a, b (plant responses and fruit ripening)
- 2.C.2: a (photoperiodism)
- 2.E.1: b3
- 2.E.2: a1-2
- 2.E.3: b1-2,4 (pollination)
- 3.B.2: a (ethylene and seed germination)
- 4.A.4: a (root), b (vascular tissue)