Appendix C

CMAS Science Prepared Graduate Statements and Grade Level Expectations

Grade 5 Science Standards, Prepared Graduate Statements, and Grade Level Expectations

1	Physical Science
PG 1	Structure, properties, and interactions of matter
GLE 1	Matter exists as particles too small to be seen; properties can be used to identify materials
GLE 2	Chemical reactions and the Law of Conservations of Mass
GLE 3	Gravity
2	Physical/Life Science
PG 1	Structure, properties, and interactions of matter
GLE 4	Energy from food was once energy from sun
PG 6	How living systems interact with the environment
GLE 2	Plants get most of their material for growth from air and water
GLE 1	Matter cycles between air and soil; organisms live and die
3	Earth and Space Science
PG 9	The universe and Earth's place in it
GLE 1	Earth's major systems interact in multiple ways
GLE 2	Interactions between Earth's orbit and the moon's orbit
PG 10	How and why Earth is constantly changing
GLE 3	Earth's major systems interact in multiple ways
GLE 4	Earths major water is in the ocean and much of Earth's freshwater is in glaciers or underground
GLE 5	Societal activities have major effects on land, ocean, atmosphere, and even outer space

Grade 8 Science Standards and Prepared Graduate Statements

1	Physical Science
PG 1	Structure, properties, and interactions of matter
PG 2	Interactions between objects and within systems of objects
PG 3	How energy is transferred and conserved
PG 4	Waves are used to transfer energy and information
2	Life Science
PG 5	How structures of living things function to support life, growth, behavior, and reproduction
PG 6	How living systems interact with the environment
PG 7	How genetic and environmental factors influence variation of organisms across generations
PG 8	Fossil records, genetic variation, how organisms adapt to different environments, and biodiversity
3	Earth and Space Science
PG 9	The universe and Earth's place in it
PG 10	How and why Earth is constantly changing
PG 11	How human activities and Earth's surface processes interact

Grade 11 Science Standards and Prepared Graduate Statements

1	Physical Science
PG 1	Structure, properties, and interactions of matter
PG 2	Interactions between objects and within systems of objects
PG 3	How energy is transferred and conserved
PG 4	Waves are used to transfer energy and information
2	Life Science
PG 5	How structures of living things function to support life, growth, behavior, and reproduction
PG 6	How living systems interact with the environment
PG 7	How genetic and environmental factors influence variation of organisms across generations
PG 8	Fossil records, genetic variation, how organisms adapt to different environments, and biodiversity
3	Earth and Space Science
PG 9	The universe and Earth's place in it
PG 10	How and why Earth is constantly changing
PG 11	How human activities and Earth's surface processes interact