CSDE Performance Level Descriptors – Grade 5

PERFORMANCE LEVEL DESCRIPTORS: CMT SKILLS CHECKLIST SCIENCE

Level 3: Independent

A. Fifth grade students who perform at this level fully complete academic tasks and activities derived from grade five content consistently and independently. Students at this level demonstrate a **consistent and independent** ability to:

- Fully address essential content that has been derived from the fifth grade Science Curriculum Framework
- Identify the characteristics of sound including source, direction, distance and volume
- Demonstrate the factors that affect the pitch and loudness of sound produced by vibrating objects
- Recognize how light is absorbed and/or reflected by different surfaces
- Recognize objects that are transparent, translucent and opaque
- Identify the sense organs and the signals they perceive
- Use sense of smell, touch, and hearing to interact with the environment
- Identify the cause of day and night based on the rotation of Earth on its axis
- Identify how different instruments such as eye glasses, magnifiers, periscopes and telescopes are used to enhance our vision

CSDE Performance Level Descriptors – Grade 5

PERFORMANCE LEVEL DESCRIPTORS: CMT SKILLS CHECKLIST SCIENCE

Level 2: Proficient

A. Fifth grade students who perform at this level complete academic tasks and activities derived from grade five content inconsistently and/or only with prompt support (e.g., a cue, a model, physical guidance, etc.). Students at this level demonstrate a **partial ability** to:

- Address essential content that has been derived from the fifth grade Science Curriculum Framework
- Identify the characteristics of sound including source, direction, distance and volume
- Demonstrate the factors that affect the pitch and loudness of sound produced by vibrating objects
- Recognize how light is absorbed and/or reflected by different surfaces
- Recognize objects that are transparent, translucent and opaque
- Identify the sense organs and the signals they perceive
- Use sense of smell, touch, and hearing to interact with the environment
- Identify the cause of day and night based on the rotation of Earth on its axis
- Identify how different instruments such as eye glasses, magnifiers, periscopes and telescopes are used to enhance our vision

CSDE Performance Level Descriptors – Grade 5

PERFORMANCE LEVEL DESCRIPTORS: CMT SKILLS CHECKLIST SCIENCE

Level 1: Basic

A. Fifth grade students who perform at this level have difficulty completing academic tasks and activities derived from grade five content, even with prompt support (e.g., a cue, a model, physical guidance, etc.). Students at this level demonstrate a **very limited ability** to:

- Address essential content that has been derived from the fifth grade Science Curriculum Framework
- Identify the characteristics of sound including source, direction, distance and volume
- Demonstrate the factors that affect the pitch and loudness of sound produced by vibrating objects
- Recognize how light is absorbed and/or reflected by different surfaces
- Recognize objects that are transparent, translucent and opaque
- Identify the sense organs and the signals they perceive
- Use sense of smell, touch, and hearing to interact with the environment
- Identify the cause of day and night based on the rotation of Earth on its axis
- Identify how different instruments such as eye glasses, magnifiers, periscopes and telescopes are used to enhance our vision

CSDE Performance Level Descriptors – Grade 8

PERFORMANCE LEVEL DESCRIPTORS: CMT SKILLS CHECKLIST SCIENCE

Level 3: Independent

A. Eighth grade students who perform at this level fully complete academic tasks and activities derived from grade eight content consistently and independently. Students at this level demonstrate a **consistent and independent** ability to:

- Fully address essential content that has been derived from the eighth grade Science Curriculum Framework
- Identify the relationship among force, mass and change in motion
- Identify the structure and function of the male and female human reproductive systems, including the organs that produce egg and sperm
- Identify secondary sexual characteristics that develop during puberty
- Identify how the motion of the sun, Earth and moon with respect to each other affect the seasons, phases of the moon and eclipses
- Identify the forces that act on beam, truss and suspension bridges and how the design of the bridge helps withstand these forces

PERFORMANCE LEVEL DESCRIPTORS: CMT SKILLS CHECKLIST SCIENCE

Level 2: Proficient

A. Eighth grade students who perform at this level complete academic tasks and activities derived from grade eight content inconsistently and/or only with prompt support (e.g., a cue, a model, physical guidance, etc.). Students at this level demonstrate a **partial ability** to:

- Address essential content that has been derived from the eighth grade Science Curriculum Framework
- Identify the relationship among force, mass and change in motion
- Identify the structure and function of the male and female human reproductive systems, including the organs that produce egg and sperm
- Identify secondary sexual characteristics that develop during puberty
- Identify how the motion of the sun, Earth and moon with respect to each other affect the seasons, phases of the moon and eclipses
- Identify the forces that act on beam, truss and suspension bridges and how the design of the bridge helps withstand these forces

CSDE Performance Level Descriptors – Grade 8

PERFORMANCE LEVEL DESCRIPTORS: CMT SKILLS CHECKLIST SCIENCE

Level 1: Basic

A. Eighth grade students who perform at this level have difficulty completing academic tasks and activities derived from grade eight content, even with prompt support (e.g., a cue, a model, physical guidance, etc.). Students at this level demonstrate a **very limited ability** to:

- Address essential content that has been derived from the eighth grade Science Curriculum Framework
- Identify the relationship among force, mass and change in motion
- Identify the structure and function of the male and female human reproductive systems, including the organs that produce egg and sperm
- Identify secondary sexual characteristics that develop during puberty
- Identify how the motion of the sun, Earth and moon with respect to each other affect the seasons, phases of the moon and eclipses
- Identify the forces that act on beam, truss and suspension bridges and how the design of the bridge helps withstand these forces

PERFORMANCE LEVEL DESCRIPTORS: CAPT SKILS CHECKLIST SCIENCE

Level 3: Independent

A. Tenth grade students who perform at this level fully complete academic tasks and activities derived from grade eight content consistently and independently. Students at this level demonstrate a **consistent and independent** ability to:

- Fully address essential content that has been derived from the tenth grade Science Curriculum Framework
- Identify significant similarities and differences in the basic structure of plant and animal cells
- Identify examples of how bacterial and viral infectious diseases are transmitted
- Recognize that sanitation, vaccination and antibiotic medications can prevent and/or treat infectious diseases
- Identify the difference between genetic disorders and infectious diseases
- Identify examples of structural and behavioral adaptations that increase the chances for organisms to survive in their environments
- Identify ways that technological advances have affected the size and growth rate of human populations throughout history

CSDE Performance Level Descriptors – Grade 10

PERFORMANCE LEVEL DESCRIPTORS: CAPT SKILLS CHECKLIST SCIENCE

Level 2: Proficient

A. Tenth grade students who perform at this level complete academic tasks and activities derived from grade eight content inconsistently and/or only with prompt support (e.g., a cue, a model, physical guidance, etc.). Students at this level demonstrate a **partial ability** to:

- Address essential content that has been derived from the tenth grade Science Curriculum Framework
- Identify significant similarities and differences in the basic structure of plant and animal cells
- Identify examples of how bacterial and viral infectious diseases are transmitted
- Recognize that sanitation, vaccination and antibiotic medications can prevent and/or treat infectious diseases
- Identify the difference between genetic disorders and infectious diseases
- Identify examples of structural and behavioral adaptations that increase the chances for organisms to survive in their environments
- Identify ways that technological advances have affected the size and growth rate of human populations throughout history

PERFORMANCE LEVEL DESCRIPTORS: CAPT SKILLS CHECKLIST SCIENCE

Level 1: Basic

A. Tenth grade students who perform at this level have difficulty completing academic tasks and activities derived from grade eight content, even with prompt support (e.g., a cue, a model, physical guidance, etc.). Students at this level demonstrate a **very limited ability** to:

- Address essential content that has been derived from the eighth grade Science Curriculum Framework
- Identify significant similarities and differences in the basic structure of plant and animal cells
- Identify examples of how bacterial and viral infectious diseases are transmitted
- Recognize that sanitation, vaccination and antibiotic medications can prevent and/or treat infectious diseases
- Identify the difference between genetic disorders and infectious diseases
- Identify examples of structural and behavioral adaptations that increase the chances for organisms to survive in their environments
- Identify ways that technological advances have affected the size and growth rate of human populations throughout history