

Northpoint Horizons

CAVS (*Content Academic Vocabulary System*) Correlated to the New York State Science Assessment Standards

Elementary K-2

This document provides a sampling of the extensive math directives offered throughout the CAVS program that meet the New York State Science Assessment Standards.

New York State Science Assessment Standards	CAVS Science K-2 Teacher's Guide Examples/Lessons
PHYSICAL SETTING	
1. The Earth and celestial phenomena can be described by principles of relative motion and perspective.	Lesson 21 – TG pp. 121-126 <i>What can you see in the day sky?</i> Lesson 22 – TG pp. 127-132 <i>What can you see in the night sky?</i> Lesson 23 – TG pp. 133-138 <i>How does Earth move?</i> Lesson 24 – TG pp. 139-144 <i>What is the solar system?</i>
1.1 Describe patterns of daily, monthly, and seasonal changes in their environment	Lesson 10 – TG pp. 55-60 <i>What are some kinds of weather?</i> Lesson 12 – TG pp. 67-72 <i>What are seasons?</i> Lesson 21 – TG pp. 121-126 <i>What can you see in the day sky?</i> Lesson 23 – TG pp. 133-138 <i>How does Earth move?</i>
2. Many of the phenomena that we observe on Earth involve interactions among components of air, water, and land.	Lesson 9 – TG pp. 49-54 <i>What is the water cycle?</i> Lesson 10 – TG pp. 55-60 <i>What are some kinds of weather?</i>

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	Lesson 11 – TG pp. 61-66 <i>How does Earth's land change?</i>
2.1 Describe the relationships among air, water, and land on Earth	Lesson 9 – TG pp. 49-54 <i>What is the water cycle?</i> Lesson 10 – TG pp. 55-60 <i>What are some kinds of weather?</i> Lesson 11 – TG pp. 61-66 <i>How does Earth's land change?</i> Lesson 12 – TG pp. 67-72 <i>What are seasons?</i>
3. Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.	Lesson 14 – TG pp. 79-84 <i>What is matter?</i> Lesson 15 – TG pp. 85-90 <i>What forms does matter take?</i>
3.1 Observe and describe properties of materials using appropriate tools	Lesson 14 – TG pp. 79-84 <i>What is matter?</i> Lesson 15 – TG pp. 85-90 <i>What forms does matter take?</i>
3.2 Describe chemical and physical changes, including changes in states of matter	Lesson 15 – TG pp. 85-90 <i>What forms does matter take?</i>
4. Energy exists in many forms, and when these forms change, energy is conserved.	Lesson 16 – TG pp. 91-96 <i>How do things move?</i> Lesson 17 – TG pp. 97-102 <i>How do magnets move things?</i> Lesson 18 – TG pp. 103-108 <i>What makes light?</i> Lesson 19 – TG pp. 109-114 <i>What makes heat?</i> Lesson 20 – TG pp. 115-120 <i>What makes sound?</i>
4.1 Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects	Lesson 18 – TG pp. 103-108 <i>What makes light?</i>

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when they interact with those forms of energy	Lesson 19 – TG pp. 109-114 <i>What makes heat?</i> Lesson 20 – TG pp. 115-120 <i>What makes sound?</i>
4.2 Observe the way one form of energy can be transformed into another form of energy present in common situations (e.g., mechanical to heat energy, mechanical to electrical energy, chemical to heat energy)	Lesson 16 – TG pp. 91-96 <i>How do things move?</i> Lesson 17 – TG pp. 97-102 <i>How do magnets move things?</i> Lesson 18 – TG pp. 103-108 <i>What makes light?</i> Lesson 19 – TG pp. 109-114 <i>What makes heat?</i>
5. Energy and matter interact through forces that result in changes in motion.	Lesson 16 – TG pp. 91-96 <i>How do things move?</i> Lesson 17 – TG pp. 97-102 <i>How do magnets move things?</i>
5.1 Describe the effects of common forces (pushes and pulls) on objects, such as those caused by gravity, magnetism, and mechanical forces	Lesson 16 – TG pp. 91-96 <i>How do things move?</i> Lesson 17 – TG pp. 97-102 <i>How do magnets move things?</i>
5.2 describe how forces can operate across distances	Lesson 18 – TG pp. 103-108 <i>What makes light?</i> Lesson 20 – TG pp. 115-120 <i>What makes sound?</i>
THE LIVING ENVIRONMENT	
1. Living things are both similar to and different from each other and nonliving things.	Lesson 1 – TG pp. 1-6 <i>What are living things?</i> Lesson 2 – TG pp. 7-12 <i>What are the parts of a plant?</i> Lesson 3 – TG pp. 13-18 <i>Which animals have a backbone?</i> Lesson 4 – TG pp. 19-24

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	<p><i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30</p> <p><i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36</p> <p><i>How do mammals grow and change?</i> Lesson 7 – TG pp. 37-42</p> <p><i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48</p> <p><i>How do living things get food?</i></p>
1.1 Describe the characteristics of and variations between living and nonliving things	<p>Lesson 1 – TG pp. 1-6</p> <p><i>What are living things?</i> Lesson 3 – TG pp. 13-18</p> <p><i>Which animals have a backbone?</i> Lesson 8 – TG pp. 43-48</p> <p><i>How do living things get food?</i></p>
1.2 Describe the life processes common to all living things	<p>Lesson 1 – TG pp. 1-6</p> <p><i>What are living things?</i> Lesson 7 – TG pp. 37-42</p> <p><i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48</p> <p><i>How do living things get food?</i></p>
2. Organisms inherit genetic information in a variety of ways that result in continuity of structure and function between parents and offspring.	<p>Lesson 2 – TG pp. 7-12</p> <p><i>What are the parts of a plant?</i> Lesson 3 – TG pp. 13-18</p> <p><i>Which animals have a backbone?</i> Lesson 4 – TG pp. 19-24</p> <p><i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30</p> <p><i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36</p> <p><i>How do mammals grow and change?</i></p>
2.1 Recognize that traits of living things are both	Lesson 2 – TG pp. 7-12

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inherited and acquired or learned	<i>What are the parts of a plant?</i> Lesson 3 – TG pp. 13-18 <i>Which animals have a backbone?</i> Lesson 4 – TG pp. 19-24 <i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30 <i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36 <i>How do mammals grow and change?</i>
2.2 Recognize that for humans and other living things there is genetic continuity between generations	Lesson 2 – TG pp. 7-12 <i>What are the parts of a plant?</i> Lesson 3 – TG pp. 13-18 <i>Which animals have a backbone?</i> Lesson 4 – TG pp. 19-24 <i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30 <i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36 <i>How do mammals grow and change?</i>
3. Individual organisms and species change over time.	Lesson 4 – TG pp. 19-24 <i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30 <i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36 <i>How do mammals grow and change?</i>
3.1 Describe how the structures of plants and animals complement the environment of the plant or animal	Lesson 2 – TG pp. 7-12 <i>What are the parts of a plant?</i> Lesson 3 – TG pp. 13-18 <i>Which animals have a backbone?</i> Lesson 4 – TG pp. 19-24 <i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30

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	<p><i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36</p> <p><i>How do mammals grow and change?</i> Lesson 7 – TG pp. 37-42</p> <p><i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48</p> <p><i>How do living things get food?</i></p>
<p>3.2 Observe that differences within a species may give individuals an advantage in surviving and reproducing</p>	<p>Lesson 3 – TG pp. 13-18</p> <p><i>Which animals have a backbone?</i> Lesson 7 – TG pp. 37-42</p> <p><i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48</p> <p><i>How do living things get food?</i></p>
<p>4. The continuity of life is sustained through reproduction and development.</p>	<p>Lesson 1 – TG pp. 1-6</p> <p><i>What are living things?</i> Lesson 2 – TG pp. 7-12</p> <p><i>What are the parts of a plant?</i> Lesson 3 – TG pp. 13-18</p> <p><i>Which animals have a backbone?</i> Lesson 4 – TG pp. 19-24</p> <p><i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30</p> <p><i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36</p> <p><i>How do mammals grow and change?</i></p>
<p>4.1 Describe the major stages in the life cycles of selected plants and animals</p>	<p>Lesson 2 – TG pp. 7-12</p> <p><i>What are the parts of a plant?</i> Lesson 4 – TG pp. 19-24</p> <p><i>How do frogs grow and change?</i> Lesson 5 – TG pp. 25-30</p> <p><i>How do butterflies grow and change?</i> Lesson 6 – TG pp. 31-36</p>

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	<i>How do mammals grow and change?</i>
4.2 Describe evidence of growth, repair, and maintenance, such as nails, hair, and bone, and the healing of cuts and bruises	Lesson 6 – TG pp. 31-36 <i>How do mammals grow and change?</i>
5. Organisms maintain a dynamic equilibrium that sustains life.	Lesson 1 – TG pp. 1-6 <i>What are living things?</i> Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48 <i>How do living things get food?</i>
5.1 Describe basic life functions of common living specimens (guppy, mealworm, gerbil)	Lesson 1 – TG pp. 1-6 <i>What are living things?</i> Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48 <i>How do living things get food?</i>
5.2 Describe some survival behaviors of common living specimens	Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48 <i>How do living things get food?</i>
5.3 Describe the factors that help promote good health and growth in humans	Lesson 6 – TG pp. 31-36 <i>How do mammals grow and change?</i> Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48 <i>How do living things get food?</i>
6. Plants and animals depend on each other and their physical environment.	Lesson 2 – TG pp. 7-12 <i>What are the parts of a plant?</i> Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48 <i>How do living things get food?</i>

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6.1 Describe how plants and animals, including humans, depend upon each other and the nonliving environment	Lesson 2 – TG pp. 7-12 <i>What are the parts of a plant?</i> Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 8 – TG pp. 43-48 <i>How do living things get food?</i>
6.2 Describe the relationship of the sun as an energy source for living and nonliving cycles	Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 9 – TG pp. 49-54 <i>What is the water cycle?</i> Lesson 18 – TG pp. 103-108 <i>What makes light?</i> Lesson 23 – TG pp. 133-138 <i>How does Earth move?</i>
7. Human decisions and activities have had a profound impact on the physical and living environment.	Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 11 – TG pp. 61-66 <i>How does Earth's land change?</i>
7.1 Identify ways in which humans have changed their environment and the effects of those changes	Lesson 7 – TG pp. 37-42 <i>Where do plants and animals live?</i> Lesson 11 – TG pp. 61-66 <i>How does Earth's land change?</i>