

# Science DesCartes: General Science – Life and Environmental Sciences

## Skills: Classification

<b>Students:</b>	<b>DesCartes Skills:</b> (Highlight the skills related to your chosen standard/concept)	
	<b>RIT 231-240:</b> <ul style="list-style-type: none"> <li>• Classifies an organism as a fungus, based on observable or listed characteristics</li> <li>• Recognizes characteristics of echinoderms</li> <li>• Classifies animals to phylum platyhelminthes</li> <li>• Classifies living things as producers (term not defined)</li> <li>• Describes simple life cycles of plants</li> </ul>	<ul style="list-style-type: none"> <li>• an animal to be classified as a vertebrate</li> <li>• Compares characteristics of insects</li> <li>• Recognizes characteristics of amphibians</li> <li>• Classifies an unknown animal as a reptile, based on listed characteristics</li> <li>• Classifies living things based on role played within ecosystem</li> <li>• Classifies living things as decomposers</li> <li>• Classifies living things as herbivores</li> <li>• Classifies organisms by their internal characteristics</li> <li>• Describes the process of development for members of different animal phyla</li> <li>• Differentiates between examples of insect life cycles showing incomplete and complete metamorphosis</li> <li>• Orders the three stages of an insect life cycle (incomplete metamorphosis)</li> </ul>
	<b>RIT 221-230:</b> <ul style="list-style-type: none"> <li>• Classifies taxonomic groups of organisms as vertebrates and invertebrates</li> <li>• Recognizes characteristics of mollusks</li> <li>• Classifies animals to the phylum mollusca</li> <li>• Classifies animals to phylum cnidaria</li> <li>• Describes characteristics of protists</li> <li>• Classifies organisms as protists</li> <li>• Classifies living things as producers (term defined)</li> <li>• Classifies organisms into a hierarchical structure based on observable characteristics</li> <li>• Describes the hierarchical structure of the five kingdom classification system</li> <li>• Recognizes terminology used to describe the stages of embryo development</li> </ul>	<b>RIT 191-200:</b> <ul style="list-style-type: none"> <li>• Recognizes that living organisms can be classified using different characteristics</li> <li>• Recognizes characteristics of vertebrates</li> <li>• Recognizes characteristics of invertebrates</li> <li>• Compares characteristics of mammals</li> <li>• Describes characteristics of mammals</li> <li>• Recognizes characteristics of reptiles</li> <li>• Describes characteristics of reptiles</li> <li>• Describes characteristics of fish</li> <li>• Describes characteristics of insects</li> <li>• Classifies an unknown animal as an amphibian, based on listed characteristics</li> <li>• Classifies living things as carnivores</li> <li>• Classifies living things as plant eaters</li> <li>• Classifies organisms by their external characteristics</li> <li>• Defines classification</li> <li>• Recognizes that animals pass through a life cycle consisting of birth, growth and development to adulthood, reproduction, and death</li> <li>• Orders the four stages of an insect life cycle (complete metamorphosis)</li> <li>• Explains that mammals give birth to live young</li> </ul>
	<b>RIT 211-220:</b> <ul style="list-style-type: none"> <li>• Describes characteristics of arthropods</li> <li>• Classifies organisms as arthropods (based on external characteristics)</li> <li>• Classifies taxonomic groups of organisms as vertebrates and invertebrates</li> <li>• Classifies animals to phylum arthropoda</li> <li>• Describes characteristics of the five kingdoms</li> <li>• Compares characteristics of organisms based on their position within the five kingdom classification hierarchy</li> <li>• Describes characteristics of eubacteria</li> <li>• Makes inferences about the roles of heterotrophs and autotrophs</li> <li>• Classifies living things as producers (term defined)</li> <li>• Describes the process of classification of living things</li> </ul>	<b>RIT 181-190:</b> <ul style="list-style-type: none"> <li>• Classifies commonly-known organisms (e.g., cat, dog, apple) based on external characteristics</li> <li>• Groups organisms based on similarities</li> <li>• Sorts living and non-living things using different characteristics</li> <li>• Classifies an unknown animal as a mammal, based on listed characteristics</li> <li>• Classifies major groups of organisms using the five kingdom system</li> <li>• Classifies living things as carnivores</li> </ul>
	<b>RIT 201-210:</b> <ul style="list-style-type: none"> <li>• Describes characteristics of fungi (e.g., shape, structure, abundance, habitat)</li> <li>• Classifies organisms (using common names) as vertebrates and invertebrates</li> <li>• Classifies animals as amphibians</li> <li>• Classifies animals as warm-blooded or cold-blooded</li> <li>• Compares characteristics of mammals</li> <li>• Compares characteristics of birds</li> <li>• Describes characteristics of reptiles</li> <li>• Describes characteristics of insects</li> <li>• Describes characteristics of amphibians</li> <li>• Explains what criteria must be met for</li> </ul>	<b>RIT 171-180:</b> <ul style="list-style-type: none"> <li>• Recognizes similarities and differences in diverse species</li> <li>• Groups organisms based on similarities</li> <li>• Classifies animals as mammals</li> <li>• Classifies an unknown animal as a fish, based on listed characteristics</li> <li>• Describes simple life cycles of animals</li> <li>• Analyzes the life cycle of plants from reproduction and</li> </ul>

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	growth, through maturation and death • Compares the process of reproduction in the major phyla of living things
	<b>RIT Below 171:</b> • Classifies animals as mammals • Recognizes characteristics of birds • Orders the stages of a vertebrate life cycle showing metamorphosis (e.g., frog, salamander)

**Lesson Title:**

**Standard/Concept for All:**

**Introduction:** (Get Attention; Connect to Prior Knowledge)

**For Students Ready for a Challenge:**

Lesson/Activity:

Resources:

Means of Assessment:

**For Most Students:**

Lesson/Activity:

Resources:

Means of Assessment:

**For Students Needing Extra Support:**

Lesson/Activity:

Resources:

Means of Assessment:

**Closure/Summary for All:**