The following is a summary of rattlesnake curriculum activities and their links with The Ontario Curriculum. Please note that while some grade levels do not have explicit Science and Technology curriculum links, many of the activities connect well with other grade levels through other subject areas. We encourage you to incorporate relevant and interesting activities into your unit lessons. Not only will you be satisfying required learning outcomes for Ontario, you will also be fulfilling the need for awareness of one of Ontario's threatened species.

GRADE 1

MONSTROUS APPETITES

SCIENCE AND TECHNOLOGY

• identify food as a source of energy
• identify the sun as a principle energy source
• describe sensitivity to heat and cold
• understand the need for different forms of energy
• identify the sun as a source of heat and light

MATHEMATICS

DATA MANAGEMENT AND PROBABILITY

• interpret displays of data using concrete materials, and discuss the data
• pose questions about data gathered

MAKING SCALES

SCIENCE AND TECHNOLOGY

• classify characteristics of animals
• describe the different ways in which animals move
• identify and describe similarities and variations between human and animal characteristics
• identify and describe patterns of living things

STRUCTURES AND MECHANISMS

• explain the structure and function of different structures
• identify structural and functional similarity
• identify geometric shapes
THE ARTS

VISUAL ARTS
• produce two- and three-dimensional works of art that communicate ideas for specific purposes
• use the elements of design (colour, line, shape, form, space, texture), in ways appropriate for this grade, when producing and responding to works of art
• describe the texture of various familiar objects using vocabulary and terminology appropriate for this grade
• identify the elements of design in familiar environments

SNAKESKIN SHEDDING SPEEDWAY

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• describe the different ways in which animals move
• identify and describe similarities and variations between human and animal characteristics
• compare changes in humans and animals as they grow

HEALTH AND PHYSICAL EDUCATION

ACTIVE PARTICIPATION
• follow instructions, pay attention, and attempt new activities
• work co-operatively with others
• demonstrate respect for others in group situations

FUNDAMENTAL MOVEMENT SKILLS
• demonstrate the principles of movement using locomotion/travelling, and stability skills

CAN YOU FIND ME?

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify the location and function of sense organs

ENERGY AND CONTROL
• describe how our senses help us perceive heat

MATTER AND MATERIALS
• identify the senses and describe how they help to recognize materials
FEEL THE VIBRATIONS

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify the location and function of each sense organ
• describe how animals use their senses to meet their needs

MATTER AND MATERIALS
• identify the properties of materials
• identify properties of materials that are important to their functioning
• describe various materials using information gathered by the sense

GRADE 2

MAKING SCALES

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify and describe major physical characteristics of different types of animals
• identify and describe behavioural characteristics
• classify animals using observable characteristics
• describe changes in the appearance and activity of animals throughout their lifecycles
• describe responses and adaptation to the environment

THE ARTS

VISUAL ARTS
• produce two- and three-dimensional works of art that communicate ideas (thoughts, feelings, experiences) for specific purposes and to familiar audiences
• use the elements of design (colour, line, shape, form, space, texture), in ways appropriate for this grade, when producing and responding to works of art
• identify the elements of design in a variety of familiar objects and in works of art
• identify and describe a variety of textures
SNAKESKIN SHEDDING SPEEDWAY

SCIENCE AND TECHNOLOGY

*LIFE SYSTEMS*
- identify and describe major physical characteristics of different types of animals
- identify and describe behavioural characteristics
- describe changes in the appearance and activity of animals throughout their lifecycle
- describe responses and adaptation to the environment

HEALTH AND PHYSICAL EDUCATION

*ACTIVE PARTICIPATION*
- stay on task, follow instructions, pay attention, and see tasks through to completion
- provide help to and ask for help from group members

*FUNDAMENTAL MOVEMENT SKILLS*
- demonstrate the principles of movement (e.g., at various levels, in relationship to equipment, using different body parts) using locomotion/travelling, and stability skills

THE GREAT SNAKE DETECTIVE

SCIENCE AND TECHNOLOGY

*LIFE SYSTEMS*
- identify and describe major physical characteristics of different types of animals
- describe responses and adaptation to the environment

MATHEMATICS

*PATTERNING AND ALGEBRA*
- identify, extend, and create number, geometric, and measurement patterns, and patterns in their environment

CAN YOU FIND ME?

SCIENCE AND TECHNOLOGY

*LIFE SYSTEMS*
- identify and describe behavioural characteristics
- describe responses and adaptation to the environment
- compare ways in which animals obtain and eat their food
FEEL THE VIBRATIONS

SCIENCE AND TECHNOLOGY

- compare ways in which animals use their environment to meet their needs

LIFE SYSTEMS
- identify and describe behavioural characteristics
- compare ways in which animals obtain and eat their food
- compare ways in which animals use their environment to meet their needs
- describe responses and adaptation to the environment

SNAKES IN THE SNOW

SCIENCE AND TECHNOLOGY

- identify and compare the effects of seasons on animals
- identify and describe behavioural characteristics that enable an animal to survive
- describe ways in which animals respond and adapt to their environment

A MATTER OF LIFE AND DEATH

SCIENCE AND TECHNOLOGY

- identify and describe behavioural characteristics that enable animals to survive
- compare ways in which animals use their environment to meet their needs
- describe ways in which animals respond and adapt to their environment
- identify needs of different animals
- compare effect of seasons on animals
- describe ways in which humans can help or harm living things

CHAIN GANG

SCIENCE AND TECHNOLOGY

- identify and describe behavioural characteristics that enable animals to survive

LIFE SYSTEMS

LANGUAGE ARTS

WRITING
- produce short pieces of writing using simple forms
• communicate ideas for specific purposes
• organize ideas in a logical sequence

MISSING LINKS

SCIENCE AND TECHNOLOGY  LIFE SYSTEMS
• classify a variety of animals using observable characteristics
• describe features of the environment that support the growth of familiar animals
• describe ways in which humans can help or harm other living things

LANGUAGE ARTS  READING
• use their knowledge of sentence structure in oral and written language to determine the meaning of a sentence
• use a variety of reading strategies to understand a piece of writing
• use phonics as an aid in learning new words

GRADE 3

GENERAL APPLICATION OF:  MAKING SCALES
SNAKESKIN SHEDDING SPEEDWAY
THE GREAT SNAKE DETECTIVE
FEEL THE VIBRATIONS
SNAKES IN THE SNOW
A MATTER OF LIFE AND DEATH
MISSING LINKS

GRADE 4

SNAKESKIN SHEDDING SPEEDWAY

SCIENCE AND TECHNOLOGY  LIFE SYSTEMS
• describe structural adaptations of animals that demonstrate a response to their environment
• recognize that animals live in a specific habitat because they have adapted to it

HEALTH AND PHYSICAL

EDUCATION  ACTIVE PARTICIPATION
• demonstrate respectful behaviour towards others in the group

FUNDAMENTAL MOVEMENT SKILLS
FEEL THE VIBRATIONS

SCIENCE AND TECHNOLOGY

• perform the movement skills required to participate in lead-up games, gymnastics, dance, and outdoor pursuits: locomotion/travelling, and stability

MATTER AND MATERIALS

• identify, using their observations, a variety of materials through which sound can travel
• formulate questions about and identify problems related to the ways in which materials transmit, reflect or absorb sound or light, and explore possible solutions

ENERGY AND CONTROL

• recognize that sound is caused by vibrations
• recognize that sound can travel through a substrate
• compare how humans and other animals hear
• describe how animal ears are designed to detect vibrations

A MATTER OF LIFE AND DEATH

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS

• identify factors that affect animals in a specific habitat
• recognize that animals are dependent on specific habitats and have adapted to them

THE CHAIN GANG

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS

• classify organisms according to their role in a food chain
• describe structural adaptations of animals that demonstrate a response to the environment
• recognize that animals live in specific habitats because they are dependent upon them and have adapted to them

LANGUAGE ARTS

WRITING

• communicate ideas and information for a variety of purposes and to specific audiences
• organize and develop ideas using paragraphs

DEADLY LINKS FOR RATTLESNAKES
SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• classify organism according to their role in a food chain
• describe structural adaptations of animals that demonstrate a response to the environment
• recognize that animals live in specific habitats because they are dependent upon them and have adapted to them

MATHEMATICS

DATA MANAGEMENT AND PROBABILITY
• collect and organize data and identify their use
• interpret displays of data and present the information
• using mathematical terms
• read and interpret data presented on tables, charts, and graphs and discuss the important features

IF YOU WERE A SNAKE

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• investigate ways in which natural communities within ecosystems can change and explain how such changes can affect animal and plant populations
• formulate questions about and identify the needs of various things in an ecosystem
• investigate the impact of the use of technology on the environment
• explain the long term effects of loss of natural habitat and the extinction of species

LANGUAGE ARTS

WRITING
• communicate ideas and information for a variety of purposes and to specific audiences
• begin to write for more complex purposes

LEGENDS AND MYTHS

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• investigate ways in which natural communities within ecosystems can change and explain how such changes can affect animal and plant populations
• formulate questions about and identify the needs of various things in an ecosystem
LANGUAGE ARTS

READING
• read a variety of literature for different purposes
• read aloud, speaking clearly and with expression

WRITING
• communicate ideas and information for a variety of purposes and to specific audiences
• begin to write for more complex purposes
• organize and develop ideas using paragraphs

MISSING LINKS

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• recognize that animals and plants live in specific habitats because they are dependent on the habitats and have adapted to them

LANGUAGE ARTS

READING
• use conventions of written materials to help them understand and use the materials
• make predictions while reading a narrative piece on the basis of evidence
• use punctuation to help them understand what they read

PUBLIC RELATIONS EXECUTIVE

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• investigate the ways in which natural communities within ecosystems can change and explain how such changes can affect animal and plant populations
• formulate questions about and identify the needs of various things in an ecosystem
• investigate the impact of the use of technology on the environment
• explain the long term effects of loss of natural habitat and the extinction of species

LANGUAGE ARTS

ORAL AND VISUAL COMMUNICATION
• identify and describe the different types of advertising that they encounter in their surroundings
• create a variety of media works
GRADE 5

MAKING SCALES

SCIENCE AND TECHNOLOGY  
*LIFE SYSTEMS*  
• identify the skin as an organ and explain its purpose

THE ARTS  
*VISUAL ARTS*  
• produce two- and three-dimensional works of art that communicate a range of ideas for specific purposes and to specific audiences  
• define the elements of design and use them in ways appropriate for the grade when producing and responding to works of art

GRADE 6

MONSTROUS APPETITES

SCIENCE AND TECHNOLOGY  
*LIFE SYSTEMS*  
• recognize that the essential difference between cold and warm-blooded animals lies in different means of regulating body temperature  
• identify the needs of different types of animals  
• identify and describe the characteristics of vertebrates and use the characteristics to classify mammals, reptiles, amphibians, etc.

MATHEMATICS  
*DATA MANAGEMENT AND PROBABILITY*  
• interpret displays of data and present the information using mathematical terms  
• evaluate data and make conclusions from the analysis of data

MAKING SCALES

SCIENCE AND TECHNOLOGY  
*LIFE SYSTEMS*  
• explain why formal classification systems are usually based on structural characteristics  
• identify and describe characteristics of vertebrates and use the characteristics to classify reptiles, mammals, amphibians, etc.
THE ARTS

VISUAL ART
• produce two- and three-dimensional works of art that communicate a range of ideas for specific purposes and to specific audiences, using a variety of familiar art tools, materials, and techniques
• identify the elements of design and the principles of design, and use them in ways appropriate for this grade when producing and responding to works of art

SNAKESKIN SHEDDING SPEEDWAY

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify the needs of different types of animals
• identify and describe characteristics of vertebrates and use the characteristics to classify reptiles, mammals, amphibians, etc.

HEALTH AND PHYSICAL EDUCATION

FUNDAMENTAL MOVEMENT SKILLS
• demonstrate the principles of movement while refining movement skills

THE CHAIN GANG

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify and explain the roles of producers, composers, and decomposers in food chains
• interpret food webs that show the transfer of energy among several food chains

LANGUAGE ARTS

WRITING
• communicate ideas and information for a variety of purposes and to specific audiences
• organize information to convey a central idea, using well-linked paragraphs

DEADLY LINKS FOR RATTLESNakes

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify and explain the roles of producers, composers, and decomposers in food chains
• interpret food webs that show the transfer of energy among several food chains, and evaluate the effect of eliminating or weakening any part of the web
• investigate the impact of the use of technology on the environment
• explain the long term effects of loss of natural habitat and the extinction of the species

MATHEMATICS
DATA MANAGEMENT AND PROBABILITY
• construct line graphs and bar graphs, both by hand and by using computer applications
• evaluate and explore how data were collected and how the results represent the population
• evaluate data and make conclusions from the analysis of data
• examine the concepts of possibly and probably

GRADE 7

MONSTROUS APPETITES

SCIENCE AND TECHNOLOGY
LIFE SYSTEMS
• interpret food web that show the transfer of energy among several food chains
• identify organisms and the factors that contribute to their survival

ENERGY AND CONTROL
• explain the effects of heat on living things
• explore interactions involving energy transfers

MATHEMATICS
DATA MANAGEMENT AND PROBABILITY
• interpret displays of data and present the information using mathematical terms
• evaluate data and make conclusions from the analysis of data

A MATTER OF LIFE AND DEATH

SCIENCE AND TECHNOLOGY
LIFE SYSTEMS
• investigate the impact of the use of technology on the environment
• explain the long term effects of loss of natural habitat and the extinction of species

THE CHAIN GANG

SCIENCE AND TECHNOLOGY
LIFE SYSTEMS
• identify and explain the roles of producers, consumers, and decomposers in food chains, and their effects on the environment
• interpret food web that show the transfer of energy among several food chains

LANGUAGE ARTS

WRITING
• communicate ideas and information for a variety of purposes and specific audiences, using forms appropriate for the purpose and topic
• organize information to develop a central idea, using well-linked and well developed paragraphs

DEADLY LINKS FOR RATTLESNAKES

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• identify and describe characteristics of vertebrates and use the characteristics to classify reptiles, mammals, amphibians, etc.
• interpret food webs that show the transfer of energy among several food chains
• investigate the impact of the use of technology on the environment
• explain the long term effects of loss of natural habitat and the extinction of species

MATHEMATICS

DATA MANAGEMENT AND PROBABILITY
• display data on bar graphs and pictographs, with and without the help of technology
• interpret displays of data and present the information using mathematical terms
• evaluate data and make conclusions from the analysis of data
• use and apply a knowledge of probability

IF YOU WERE A SNAKE

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• investigate ways in which natural communities within ecosystems can change and explain how such changes can affect animal and plant populations
• formulate questions about and identify the needs of various things in an ecosystem
• investigate the impact of the use of technology on the environment
• explain the long term effects of loss of natural habitat and the extinction of species
LANGUAGE ARTS

WRITING
• communicate ideas and information for a variety of purposes and to specific audiences, using forms appropriate for the purpose and topic
• organize information to develop a central idea, using well-linked and well developed paragraphs

LEGENDS AND MYTHS

SCIENCE AND TECHNOLOGY

LIFE SYSTEMS
• investigate ways in which natural communities within ecosystems can change and explain how such changes can effect animal and plant populations
• formulate questions about and identify the needs of various things in an ecosystem

LANGUAGE ARTS

READING
• read a variety of fiction and non-fiction materials for different purposes
• read aloud, showing understanding of the material and awareness of the audience

WRITING
• communicate ideas and information for a variety of purposes and to specific audiences, using forms appropriate for the purpose and topic
• organize information to develop a central idea, using well-linked and well developed paragraphs
• produce pieces of writing using a variety of forms, techniques and resources appropriate to the form and purpose, and materials from other media