

# CURIOUS ABOUT CREATURES

## Kindergarten

### SCIENCE BIG IDEA

Plants and animals have observable features.

### Learning Standards

Curricular Competencies	Content
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate curiosity and a sense of wonder about the world</li><li>• Observe objects and events in familiar contexts</li><li>• Ask simple questions about familiar objects and events</li></ul> <p><b>Planning and conducting</b></p> <ul style="list-style-type: none"><li>• Make exploratory observations using their senses</li><li>• Safely manipulate materials</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li><li>• Discuss observations</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Share observations and ideas orally</li></ul>	<ul style="list-style-type: none"><li>• <b>basic needs</b> of plants and animals</li><li>• <b>adaptations</b> of local <b>plants</b> and <b>animals</b></li><li>• <b>living things make changes</b> to accommodate daily and seasonal cycles</li></ul>

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## Grade 1

### SCIENCE BIG IDEA

Living things have features and behaviours that help them survive in their environment.

### Learning Standards

Curricular Competencies	Content
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate curiosity and a sense of wonder about the world</li><li>• Observe objects and events in familiar contexts</li><li>• Ask questions about familiar objects and events</li><li>• Make simple predictions about familiar objects and events</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Communicate observations and ideas using oral or written language, drawing, or role-play</li><li>• Express and reflect on personal experiences of <b>place</b></li></ul>	<ul style="list-style-type: none"><li>• <b>classification</b> of living and non-living things</li><li>• <b>names</b> of local plants and animals</li><li>• <b>structural features</b> of living things in the local environment</li><li>• <b>behavioural adaptations</b> of animals in the local environment</li></ul>

# CURIOUS ABOUT CREATURES

Grade 2

## SCIENCE BIG IDEA

Living things have life cycles adapted to their environment.

### Learning Standards

Curricular Competencies	Content
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate curiosity and a sense of wonder about the world</li><li>• Observe objects and events in familiar contexts</li><li>• Ask questions about familiar objects and events</li><li>• Make simple predictions about familiar objects and events</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li></ul> <p><b>Evaluating</b></p> <ul style="list-style-type: none"><li>• Compare observations with those of others</li><li>• Consider some environmental consequences of their actions</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Communicate observations and ideas using oral or written language, drawing, or role-play</li><li>• Express and reflect on personal experiences of <b>place</b></li></ul>	<ul style="list-style-type: none"><li>• <b>metamorphic</b> and <b>non-metamorphic</b> life cycles of different organisms</li><li>• similarities and differences between <b>offspring and parent</b></li></ul>

# CURIOUS ABOUT CREATURES

## Grade 3

### SCIENCE BIG IDEA

Living things are diverse, can be grouped, and interact in their ecosystems.

### Learning Standards

Curricular Competencies	Content
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate curiosity and a sense of wonder about the world</li><li>• Observe objects and events in familiar contexts</li><li>• Identify questions about familiar objects and events that can be investigated scientifically</li><li>• Make predictions based on prior knowledge</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li></ul> <p><b>Evaluating</b></p> <ul style="list-style-type: none"><li>• Identify some simple environmental implications of their and others' actions</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Express and reflect on personal or shared experiences of <b>place</b></li></ul>	<ul style="list-style-type: none"><li>• <b>biodiversity</b> in the local environment</li></ul>

# CURIOUS ABOUT CREATURES

**Grade 4**

## **SCIENCE BIG IDEA**

All living things sense and respond to their environment.

### **Learning Standards**

<b>Curricular Competencies</b>	<b>Content</b>
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate curiosity about the natural world</li><li>• Observe objects and events in familiar contexts</li><li>• Identify questions about familiar objects and events that can be investigated scientifically</li><li>• Make predictions based on prior knowledge</li></ul> <p><b>Planning and conducting</b></p> <ul style="list-style-type: none"><li>• Make observations about living and non-living things in the local environment</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li></ul> <p><b>Evaluating</b></p> <ul style="list-style-type: none"><li>• Identify some simple environmental implications of their and others' actions</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Express and reflect on personal or shared experiences of <b>place</b></li></ul>	<ul style="list-style-type: none"><li>• sensing and responding:<ul style="list-style-type: none"><li>– <b>humans</b></li><li>– <b>other animals</b></li><li>– <b>plants</b></li></ul></li></ul>

# CURIOUS ABOUT CREATURES

**Grade 5**

## **SCIENCE BIG IDEA**

Multicellular organisms have organ systems that enable them to survive and interact within their environment.

### **Learning Standards**

<b>Curricular Competencies</b>	<b>Content</b>
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate a sustained curiosity about a scientific topic or problem of personal interest</li><li>• Make observations in familiar or unfamiliar contexts</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Communicate ideas, explanations, and processes in a variety of ways</li><li>• Express and reflect on personal, shared, or others' experiences of <b>place</b></li></ul>	<ul style="list-style-type: none"><li>• basic structures and functions of body systems:<ul style="list-style-type: none"><li>– <b>digestive</b></li><li>– <b>musculo-skeletal</b></li><li>– <b>respiratory</b></li><li>– <b>circulatory</b></li></ul></li></ul>

# CURIOUS ABOUT CREATURES

**Grade 6**

## **SCIENCE BIG IDEA**

Multicellular organisms rely on internal systems to survive, reproduce, and interact with their environment.

### **Learning Standards**

<b>Curricular Competencies</b>	<b>Content</b>
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate a sustained curiosity about a scientific topic or problem of personal interest</li><li>• Make observations in familiar or unfamiliar contexts</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li></ul>	<ul style="list-style-type: none"><li>• the basic structures and functions of body <b>systems</b>:<ul style="list-style-type: none"><li>– <b>excretory</b></li><li>– <b>reproductive</b></li><li>– <b>hormonal</b></li><li>– <b>nervous</b></li></ul></li></ul>

# CURIOUS ABOUT CREATURES

**Grade 7**

## **SCIENCE BIG IDEA**

Evolution by natural selection provides an explanation for the diversity and survival of living things.

### **Learning Standards**

<b>Curricular Competencies</b>	<b>Content</b>
<p><b>Questioning and predicting</b></p> <ul style="list-style-type: none"><li>• Demonstrate a sustained intellectual curiosity about a scientific topic or problem of personal interest</li><li>• Make observations aimed at identifying their own questions about the natural world</li></ul> <p><b>Processing and analyzing data and information</b></p> <ul style="list-style-type: none"><li>• Experience and interpret the local environment</li><li>• Use scientific understandings to identify relationships and draw conclusions</li></ul> <p><b>Communicating</b></p> <ul style="list-style-type: none"><li>• Express and reflect on a variety of experiences and perspectives of <b>place</b></li></ul>	<ul style="list-style-type: none"><li>• <b>organisms have evolved over time</b></li><li>• <b>survival needs</b></li><li>• <b>natural selection</b></li></ul>