

Sky Watchers Curriculum Correlation

Province: British Columbia
Curriculum: Science (2005), Earth and Space Science
Grade: 4
Date of Correlation: February 21, 2008

Chapter	Prescribed Learning Outcomes and Key Elements Addressed ¹	Cross Curricular Connections
Chapter 1 First Steps	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> ▪ measure weather in terms of temperature, precipitation, cloud cover, wind speed and direction <p>Key Elements</p> <ul style="list-style-type: none"> ▪ vocabulary: temperature, wind speed, wind direction, water cycle, cloud, evaporation, condensation, precipitation, erosion, barometer, anemometer, thermometer, rain gauge, weather vane ▪ Weather conditions that can be observed and/or measured include temperature, wind speed, wind direction, precipitation, air pressure, and cloud formations ▪ Observe weather conditions and record using graphs, tables, and charts ▪ Interpret data from recorded observations 	<ul style="list-style-type: none"> ▪ Activity, page 4: Technology (Internet) ▪ Throughout chapter: Math (measurement)
Chapter 2 What Makes Weather? Includes Activities 1 to 6 on pages 61 to 68	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> ▪ measure weather in terms of temperature, precipitation, cloud cover, wind speed and direction <p>Key Elements</p> <ul style="list-style-type: none"> ▪ Vocabulary: temperature, wind speed, wind direction, water cycle, cloud, evaporation, condensation, precipitation, erosion, barometer, anemometer, thermometer, rain gauge, weather vane ▪ The surface of the planet Earth is surrounded by a blanket of air called the atmosphere ▪ The Earth's surface is heated by energy from the Sun ▪ Weather conditions that can be observed and/or measured include temperature, wind speed, wind direction, precipitation, air pressure, and cloud formations ▪ Observe weather conditions and record using graphs, tables, and 	<ul style="list-style-type: none"> ▪ Activity, page 14: Math (measurement) ▪ Activity number 4, page 64: Math (measurement)

	<p>charts</p> <ul style="list-style-type: none"> Construct simple instruments 	
<p>Chapter 3</p> <p>Weather Elements</p> <p>Includes Activities 7 to 12 on pages 69 to 73</p>	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> measure weather in terms of temperature, precipitation, cloud cover, wind speed and direction <p>Key Elements</p> <ul style="list-style-type: none"> Vocabulary: temperature, wind speed, wind direction, water cycle, cloud, evaporation, condensation, precipitation, erosion, barometer, anemometer, thermometer, rain gauge, weather vane Most of the Earth's surface is covered by water and circulates through the water cycle The Earth's surface is heated by energy from the Sun Weather conditions that can be observed and/or measured include temperature, wind speed, wind direction, precipitation, air pressure, and cloud formations Observe weather conditions and record using graphs, tables, and charts Interpret data from recorded observations Construct simple instruments 	<ul style="list-style-type: none"> Activity, page 22: Social Studies (mapping) Activity, page 23: Math (data management) Activity, page 30: Science (sound), and Language (writing) Activity, page 31: Math (measurement) Activity, number 7 page 69: Math (measurement and data management)
<p>Chapter 4</p> <p>Severe Weather in Canada</p> <p>Includes Activity 13 on page 74</p>	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> analyse impacts of weather on living and non-living things <p>Key Element</p> <ul style="list-style-type: none"> Weather conditions affect living things (e.g., growth, behaviour, food, shelter) 	<ul style="list-style-type: none"> Throughout chapter: Health (severe weather safety) Activity, page 4-2: Math (measurement) Activity, page 4-9: Language (writing)
<p>Chapter 5</p> <p>Weather and Canadians</p> <p>Includes Activities 14 to 17 on pages 75 to 79</p>	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> analyse impacts of weather on living and non-living things <p>Key Element</p> <ul style="list-style-type: none"> Weather conditions affect living things (e.g., growth, behaviour, food, shelter) 	<ul style="list-style-type: none"> Activity, page 39: Language (reading and media literacy) Activity number 14, page 75: Math (data management), and Technology (spreadsheets) Activity number 15, page 76: Social Studies (mapping) Activity number 16, page 77: Social Studies (mapping)

		<ul style="list-style-type: none"> ▪ Activity number 17, pages 78 to 79: Social Studies (mapping)
<p>Chapter 6</p> <p>Ultraviolet Radiation</p> <p>Includes Activities 19 to 23 on pages 80 to 84</p>	<p>Key Element</p> <ul style="list-style-type: none"> ▪ The surface of the planet Earth is surrounded by a blanket of air called the atmosphere ▪ The Earth’s surface is heated by energy from the Sun 	<ul style="list-style-type: none"> ▪ Throughout chapter: Health (sun safety), and Social Studies/Science (environment) ▪ Activity number 20, page 81: Health (sun safety), and Math (data management) ▪ Activity number 21, page 82: Health (sun safety), and Math (percentage) ▪ Activity number 22, page 83: Health (sun safety), and Math (percentage) ▪ Activity number 23, page 84: Health (sun safety), Math (percentage)
<p>Chapter 7</p> <p>Putting It All Together</p> <p>Includes Activity number 18 on page 80</p>	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> ▪ measure weather in terms of temperature, precipitation, cloud cover, wind speed and direction <p>Key Elements</p> <ul style="list-style-type: none"> ▪ Vocabulary: temperature, wind speed, wind direction, water cycle, cloud, evaporation, condensation, precipitation, erosion, barometer, anemometer, thermometer, rain gauge, weather vane ▪ Weather conditions that can be observed and/or measured include temperature, wind speed, wind direction, precipitation, air pressure, and cloud formations ▪ Observe weather conditions and record using graphs, tables, and charts ▪ Interpret data from recorded observations ▪ Predict weather conditions 	<ul style="list-style-type: none"> ▪ Activity, page 52: Language (oral communication) ▪ Activity, page 53: Language (writing and oral communication) ▪ Activity, page 57: Math (measurement) ▪ Activity number 18, page 80: Language (writing)
<p>Supplement One</p> <p>Air Quality</p> <p>Includes Activities 1 to 6 on pages 9 to 17 (Supplement One)</p>	<p>Prescribed Learning Outcome</p> <ul style="list-style-type: none"> ▪ analyse impacts of weather on living and non-living things 	<ul style="list-style-type: none"> ▪ Throughout chapter: Social Studies/ Science (environment) ▪ Activity, page 4: Technology (internet) ▪ Activity number 2A, page 10: Math (data management), and Technology (internet) ▪ Activity number 2B, page 11: Math (data management) ▪ Activity number 3, pages 12-13: Reading

¹ The chapter provides teacher information and/or student activities to support the teaching of the prescribed learning outcome or key element.



This curriculum correlation was conducted by Curriculum Services Canada (CSC), the Pan-Canadian standards agency for quality assurance in learning products and programs at www.curriculum.org.