

CONNECTING ACTIVITIES FROM EXPLORE YOUR ENVIRONMENT K-8 ACTIVITY GUIDE TO MANITOBA CURRICULUM

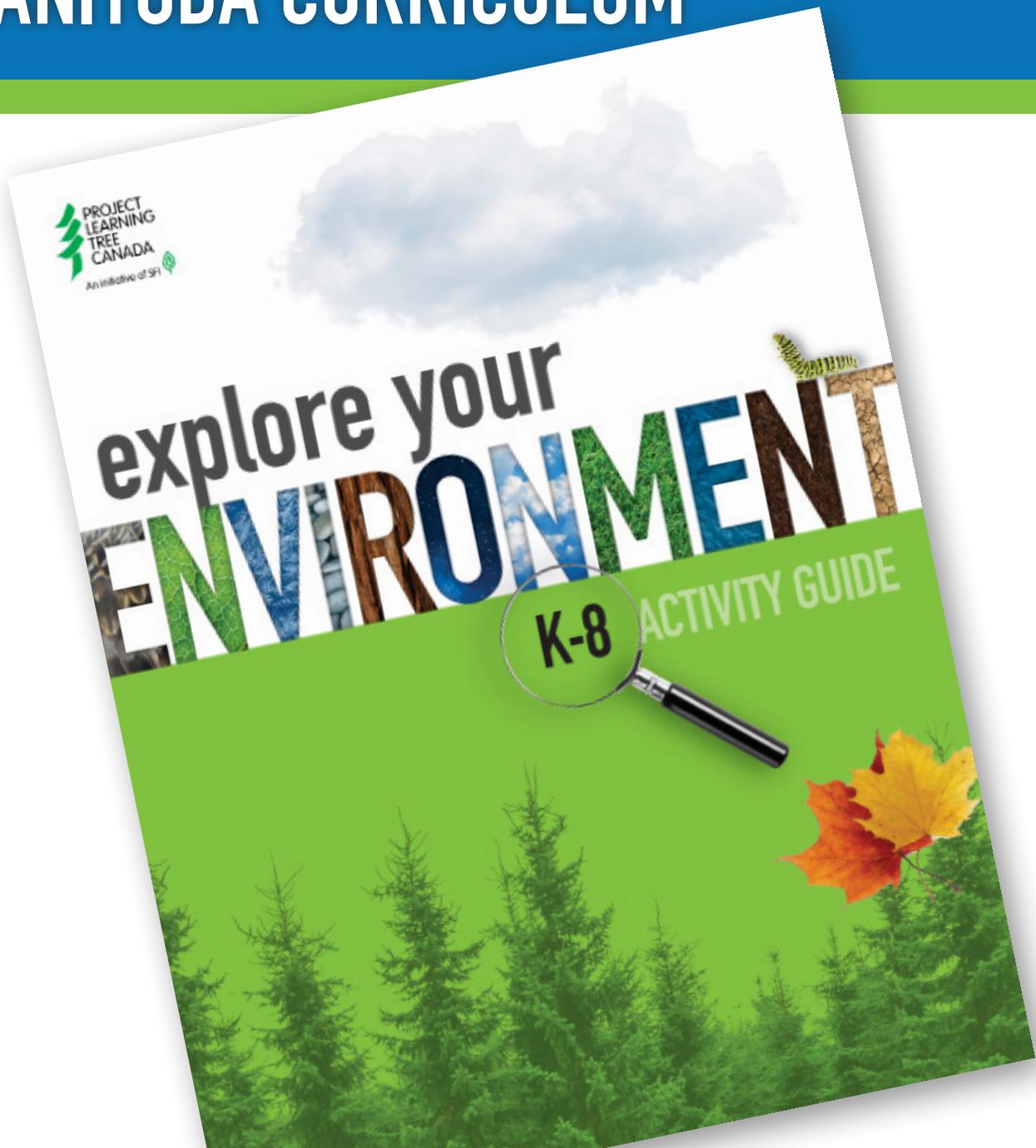


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INTRODUCTION

Project Learning Tree Canada is committed to supporting educators in providing instruction that helps students meet Manitoba curriculum. Activities in the *Explore Your Environment* Activity Guide involve exploring the real world through learner-centred, multidisciplinary investigations that promote inquiry and problem solving. They provide students opportunities to practise skills, and make personal connections to the curriculum as they investigate their environment and communicate about it.

The following chart allows you to easily find corresponding *Explore Your Environment* activities that address curricular competencies in Manitoba's curriculum. See <https://www.edu.gov.mb.ca/k12/cur/> to access the complete curriculum documents.

The chart also includes activity connections to “transferable skills,” which are the skills and attributes that students need in order to thrive in the modern world. PLT Canada is using seven important categories of transferable skills, or “competencies”, that will help students navigate the world of work and meet with success in the future:

- critical thinking and problem solving
- innovation, creativity, and entrepreneurship
- self-directed learning
- collaboration
- communication
- global citizenship and sustainability
- digital literacy

USING THIS TOOLKIT

To help you identify PLT Canada activities that meet Manitoba's curriculum, the chart has a solid square (■) to show a connection to an overall expectation.

KEEP IN MIND

The curriculum connections are based on *Explore Your Environment's* activities as written. They do not take into account the myriad ways educators can modify or adapt activities to address a curriculum expectation more directly or completely.

As you work through the curriculum connections, remember: if the content of the curriculum is referred to in the activity's background information, but not incorporated in the Doing the Activity or Enrichment sections, it is not included as a connection.

PROFESSIONAL NETWORK

PLT Canada provides educators with hands-on professional development and customised assistance to integrate environmental education into their curriculum. The link below provides contact information for PLT Canada. Please consider this an invitation to reach out and get involved today!

INTRODUCTION CONTINUED

CONTACT PLT CANADA FOR:

- Local resources and assistance
- Ideas for incorporating environmental education and outdoor learning into your program
- Connections to mentor teachers, community members, and natural resource professionals
- Information about in-person professional development events near you
- Becoming a PLT Canada professional development facilitator

EXPERIENCE PLT CANADA'S PROFESSIONAL DEVELOPMENT TO:

- Gain new teaching skills, deepen your content knowledge, and become comfortable teaching outdoors
- Receive instructional materials tailored to your province or territory's standards
- Experience PLT Canada activities, develop an action plan, and get lesson planning tips specific to your setting
- Get access to a network of professionals and support

GET CONNECTED TODAY

<https://pltcanada.org/en/about-us/contact/>





OVERALL EXPECTATIONS:

EXPLORE YOUR ENVIRONMENT ACTIVITY:	A TREE'S LIFE	ADOPT A TREE	BACKYARD NATURALIST	BIRDS AND BUGS	BURSTING BUDS	DID YOU NOTICE?	HAVE SEEDS, WILL TRAVEL	HERE WE GROW AGAIN	MAKE YOUR OWN PAPER	PEPPERMINT BEETLE	THE CLOSER YOU LOOK	TREES AS HABITATS	WE ALL NEED TREES
LANGUAGE ARTS													
LANGUAGE AS SENSE MAKING													
Access, use, build, and refine schema.	■			■	■	■	■		■	■	■	■	■
Select from and use a variety of strategies.	■	■		■	■	■	■		■	■	■	■	■
Be aware of and articulate the ways that one engages with text.	■	■		■	■	■	■		■	■	■	■	■
LANGUAGE AS SYSTEM													
Recognize, apply, and adapt rules and conventions	■	■	■	■	■				■		■		
Identify, analyze, and apply understandings of whole-part-whole relationships.	■				■		■	■			■	■	
Recognize and analyze inequities, viewpoints, and bias in texts and ideas.		■	■			■	■		■				■
Investigate complex moral and ethical issues and conflicts.			■		■	■	■		■				■
LANGUAGE AS POWER AND AGENCY													
Contemplate the actions that can be taken, consider alternative viewpoints, and contribute other perspectives.	■	■	■			■				■	■		
LANGUAGE AS EXPLORATION AND DESIGN													
Research and study topics and ideas.	■	■	■		■	■	■	■	■	■	■		
Interpret and integrate information and ideas from multiple texts and sources.	■	■	■		■	■	■	■	■		■		
Manage information and ideas.	■	■	■	■	■	■	■	■	■		■		
Invent, take risks, and reflect to create possibilities.	■	■	■	■		■	■	■	■	■	■		■
MATHEMATICS													
KNOWLEDGE AND UNDERSTANDING OF CONCEPTS													
Number Strand	■			■	■	■	■	■				■	
Patterns and Relationships	■	■		■	■	■	■	■	■	■	■	■	■
Shape and Space	■	■	■			■	■		■	■	■	■	
Statistics and Probability	■			■	■	■	■	■				■	■
MATHEMATICAL PROCESSES													
Communication and Connection	■	■	■	■	■	■	■	■					
Mental Math and Estimation				■	■		■	■					
Problem Solving and Reasoning	■	■		■	■	■	■						
Visualization and Technology	■		■	■									
SCIENCE													
KNOWLEDGE AND UNDERSTANDING (BIG IDEAS)													
Kindergarten: Trees	■	■	■	■	■	■	■	■	■	■	■	■	■
Kindergarten: Paper									■				■
Grade 1: Characteristics and Needs of Living Things	■	■		■				■				■	
Grade 1: Senses		■								■			
Grade 1: Characteristics of Objects and Materials									■		■		
Grade 1: Daily and Seasonal Changes		■			■	■							
Grade 2: Air and Water in the Environment			■					■				■	



OVERALL EXPECTATIONS:

EXPLORE YOUR ENVIRONMENT ACTIVITY:	A TREE'S LIFE	ADOPT A TREE	BACKYARD NATURALIST	BIRDS AND BUGS	BURSTING BUDS	DID YOU NOTICE?	HAVE SEEDS, WILL TRAVEL	HERE WE GROW AGAIN	MAKE YOUR OWN PAPER	PEPPERMINT BEETLE	THE CLOSER YOU LOOK	TREES AS HABITATS	WE ALL NEED TREES
SCIENCE (continued)													
SCIENTIFIC INQUIRY													
Asking Questions and Making Predictions	■	■	■	■	■	■	■	■	■	■	■	■	■
Planning and Carrying Out Investigations	■	■	■	■	■	■	■	■	■	■	■	■	■
Analyzing and Predicting Data	■	■	■	■	■	■	■	■	■	■	■	■	■
Obtaining, Evaluating and Communicating Data	■	■	■	■	■	■	■	■	■	■	■	■	■
DESIGN PROCESS													
Identifying and Defining Practical Problems	■	■	■	■	■	■	■	■	■	■	■	■	■
Research, Planning, and Choosing a Solution	■	■	■	■	■	■	■	■	■	■	■	■	■
Constructing and/or Testing the Prototype or Consumer Product			■				■	■	■	■	■	■	
Evaluating and Optimizing the Solution			■				■	■	■	■	■	■	
SOCIAL STUDIES													
KNOWLEDGE AND UNDERSTANDING													
Identity, Culture, and Community	■	■	■	■		■	■	■	■				
The Land: Places and People	■	■	■			■					■		
Historical Connections	■	■				■			■				
Global Interdependence							■					■	■
Power and Authority							■						
Economics and Resources	■						■		■				■
RESEARCH AND UNDERSTANDING													
Managing Information and Ideas	■	■		■	■	■	■						
Communication		■				■							
CRITICAL THINKING AND CITIZENSHIP													
Thinking Critically and Creatively	■	■		■		■	■	■	■		■	■	
Being an Active Democratic Citizen			■			■						■	■
PHYSICAL EDUCATION/HEALTH EDUCATION													
Movement	■			■		■	■				■		
Personal and Social Management													■
Healthy Lifestyle Practices		■											
VISUAL ARTS													
Making, Connecting, Creating, Responding	■	■	■		■	■	■		■		■		



OVERALL EXPECTATIONS:

EXPLORE YOUR ENVIRONMENT ACTIVITY:

EXPLORE YOUR ENVIRONMENT ACTIVITY:	CHARTING BIODIVERSITY	DISCOVER DIVERSITY	EVERY DROP COUNTS	EVERY TREE FOR ITSELF	FALLEN LOG	GET OUTSIDE!	MY GREEN FUTURE	PEEK AT PACKAGING	POET-TREE	SIGNS OF FALL	SOIL BUILDERS	TREE COOKIES	TREE FACTORY	TREE ID	TREES FOR MANY REASONS	TREES IN TROUBLE	WATER WONDERS	WEB OF LIFE
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LANGUAGE ARTS

LANGUAGE AS SENSE MAKING

Access, use, build, and refine schema.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Select from and use a variety of strategies.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Be aware of and articulate the ways that one engages with text.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

LANGUAGE AS SYSTEM

Recognize, apply, and adapt rules and conventions.					■				■									
Identify, analyze, and apply understandings of whole-part-whole relationships.		■	■				■		■			■			■			■
Recognize and analyze inequities, viewpoints, and bias in texts and ideas.		■	■				■	■				■			■	■		■
Investigate complex moral and ethical issues and conflicts.		■	■	■				■	■			■			■		■	■

LANGUAGE AS POWER AND AGENCY

Contemplate the actions that can be taken, consider alternative viewpoints, and contribute other perspectives.	■	■	■	■	■	■		■	■	■	■	■		■	■		■	■
Research and study topics and ideas.	■	■	■	■	■	■	■	■		■	■	■		■	■		■	■
Interpret and integrate information and ideas from multiple texts and sources.	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
Manage information and ideas.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Invent, take risks, and reflect to create possibilities.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

MATHEMATICS

KNOWLEDGE AND UNDERSTANDING OF CONCEPTS

Number Strand			■	■		■			■	■	■	■	■				■	■
Patterns and Relationships			■	■							■	■					■	
Shape and Space			■									■	■				■	
Statistics and Probability			■	■	■	■				■							■	■

MATHEMATICAL PROCESSES

Communication and Connection			■	■														■
Mental Math and Estimation		■	■	■								■						■
Problem Solving and Reasoning		■	■	■														■
Visualization and Technology	■	■	■	■		■				■	■							■

SCIENCE

KNOWLEDGE AND UNDERSTANDING (BIG IDEAS)

Grade 3: Growth and Change in Plants			■	■		■	■		■	■		■	■	■	■	■	■	■
Grade 3: Soils in the Environment	■	■			■					■	■							■
Grade 4: Habitats and Communities	■	■	■	■	■	■	■	■										■

SCIENTIFIC INQUIRY

Asking Questions and Making Predictions	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Planning and Carrying Out Investigations	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Analyzing and Predicting Data	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Obtaining, Evaluating and Communicating Data	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



OVERALL EXPECTATIONS:

EXPLORE YOUR ENVIRONMENT ACTIVITY:

CHARTING BIODIVERSITY	DISCOVER DIVERSITY	EVERY DROP COUNTS	EVERY TREE FOR ITSELF	FALLEN LOG	GET OUTSIDE!	MY GREEN FUTURE	PEEK AT PACKAGING	POET-TREE	SIGNS OF FALL	SOIL BUILDERS	TREE COOKIES	TREE FACTORY	TREE ID	TREES FOR MANY REASONS	TREES IN TROUBLE	WATER WONDERS	WEB OF LIFE
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SCIENCE (continued)

DESIGN PROCESS

Identifying and Defining Practical Problems	■	■	■	■	■		■									■	■	■
Research, Planning, and Choosing a Solution	■	■	■	■	■		■									■	■	■
Constructing and/ or Testing the Prototype or Consumer Product	■	■	■	■	■		■									■	■	■
Evaluating and Optimizing the Solution	■	■	■	■	■		■									■	■	■

SOCIAL STUDIES

KNOWLEDGE AND UNDERSTANDING

Identity, Culture, and Community	■	■	■		■						■	■		■	■	■	■
The Land: Places and People	■	■	■	■	■	■	■			■	■			■	■	■	■
Historical Connections						■					■						
Global Interdependence	■	■					■			■				■		■	■
Power and Authority						■	■										
Economics and Resources	■	■	■	■		■	■					■	■	■		■	

RESEARCH AND UNDERSTANDING

Managing Information and Ideas	■	■	■			■	■										
Communication	■	■	■			■	■										

CRITICAL THINKING AND CITIZENSHIP

Thinking Critically and Creatively	■	■	■	■		■	■							■	■		
Being an Active Democratic Citizen	■	■	■		■	■	■							■	■	■	■

PHYSICAL EDUCATION/ HEALTH EDUCATION

Movement				■	■								■				
Fitness Management					■												
Personal and Social Management					■												
Healthy Lifestyle Practices					■												

VISUAL ARTS

Making, Connecting, Creating, Responding		■			■		■		■		■		■				■
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EXPLORE YOUR ENVIRONMENT ACTIVITY:

OVERALL EXPECTATIONS:

DECISIONS, DECISIONS ENVIRONMENTAL HEALTH FOR ALL	EXPLORATION ENERGY! FIELD, FOREST, AND STREAM	FOREST IN THE CITY	GLOBAL GOODS	IF YOU WERE THE BOSS	IMPROVE YOUR PLACE	INVASIVE SPECIES	LIFE ON THE EDGE	LIVING WITH FIRE	NATURE'S SKYSCRAPERS	NOTHING SUCCEEDS LIKE SUCCESSION	OUR SHARED FORESTS	PLANT A TREE	REDUCE, REUSE, RECYCLE	RENEWABLE OR NOT	THE GLOBAL CLIMATE	WHAT'S IN A LABEL?
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LANGUAGE ARTS

LANGUAGE AS SENSE MAKING COMPETENCY

Access, use, build, and refine schema.	■		■	■													■
Select from and use a variety of strategies.	■	■				■	■	■									■
Be aware of and articulate the ways that one engages with text.	■				■												■

LANGUAGE AS SYSTEM

Recognize, apply, and adapt rules & conventions.	■					■			■								
Identify, analyze, and apply understanding of whole-part-whole relationships.		■		■	■				■	■	■		■				■
Recognize and analyze inequities, viewpoints, and bias in texts and ideas.	■	■				■			■			■					
Investigate complex moral and ethical issues and conflicts.	■	■				■			■				■				

LANGUAGE AS POWER AND AGENCY

Contemplate the actions that can be taken, consider alternative viewpoints, and contribute other perspectives.	■	■						■	■								■
Research and study topics and ideas.		■	■			■			■			■					■
Interpret and integrate information and ideas from multiple texts and sources.	■	■				■	■										■
Manage information and ideas.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Invent, take risks, and reflect to create possibilities.	■		■			■			■			■	■	■	■		■

MATHEMATICS

KNOWLEDGE AND UNDERSTANDING OF CONCEPTS

Number Strand			■				■						■	■	■		
Patterns and Relationships										■	■				■	■	
Shape and Space						■	■	■			■						
Statistics and Probability					■								■	■	■		

MATHEMATICAL PROCESSES

Communication and Connection	■	■	■	■	■		■	■	■	■		■	■	■	■	■	■
Mental Math and Estimation										■				■		■	
Problem Solving and Reasoning	■	■					■	■			■				■	■	
Visualization and Technology		■	■	■	■	■		■	■			■	■	■	■		■

SCIENCE

KNOWLEDGE AND UNDERSTANDING (BIG IDEAS)

Grade 6: Diversity of Living Things				■					■	■							
Grade 7: Interactions within Ecosystems				■					■	■		■					■
Grade 7: Forces and Structures											■	■		■			
Grade 8: Water Systems	■	■		■							■			■			

SCIENTIFIC INQUIRY

Asking Questions and Making Predictions	■		■	■	■		■	■	■	■	■	■	■		■	■	■
Planning and Carrying Out Investigations	■		■	■	■		■	■	■	■	■	■		■	■	■	■
Analyzing and Predicting Data	■		■		■		■	■	■	■	■	■		■	■	■	■
Obtaining, Evaluating and Communicating Data	■		■	■	■		■	■	■	■	■	■		■	■	■	■



OVERALL EXPECTATIONS:

EXPLORE YOUR ENVIRONMENT ACTIVITY:

DECISIONS, DECISIONS	ENVIRONMENTAL HEALTH FOR ALL	EXPLORATION ENERGY!	FIELD, FOREST, AND STREAM	FOREST IN THE CITY	GLOBAL GOODS	IF YOU WERE THE BOSS	IMPROVE YOUR PLACE	INVASIVE SPECIES	LIFE ON THE EDGE	LIVING WITH FIRE	NATURE'S SKYSCRAPERS	NOTHING SUCCEEDS LIKE SUCCESSION	OUR SHARED FORESTS	PLANT A TREE	REDUCE, REUSE, RECYCLE	RENEWABLE OR NOT	THE GLOBAL CLIMATE	WHAT'S IN A LABEL?
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SCIENCE (continued)

DESIGN PROCESS

Identifying and Defining Practical Problems	■	■	■	■		■	■	■	■	■			■		■	■	■	
Research, Planning, and Choosing a Solution	■	■	■				■	■	■	■			■		■	■	■	
Constructing and/ or Testing the Prototype or Consumer Product	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■	■
Evaluating and Optimizing the Solution	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■	■

SOCIAL STUDIES

KNOWLEDGE AND UNDERSTANDING

Identity, Culture, and Community	■	■			■	■	■	■					■	■				■
The Land: Places and People	■			■	■		■		■	■	■	■	■	■				
Historical Connections	■	■							■	■		■						■
Global Interdependence						■			■							■	■	■
Power and Authority	■	■					■	■			■		■			■		■
Economics and Resources		■	■			■	■				■				■	■	■	■

RESEARCH AND UNDERSTANDING

Managing Information and Ideas	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Communication	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

CRITICAL THINKING AND CITIZENSHIP

Thinking Critically and Creatively	■	■	■		■	■	■	■	■	■			■	■	■	■	■	■
Being an Active Democratic Citizen	■	■					■	■		■			■	■	■	■	■	

PHYSICAL EDUCATION/ HEALTH EDUCATION

Movement		■	■	■	■		■	■		■	■	■			■	■		■
Fitness Management		■			■		■											
Personal and Social Management	■	■			■		■	■					■	■	■	■		■
Healthy Lifestyle Practices		■			■		■								■		■	■

VISUAL ARTS

Making, Connecting, Creating, Responding	■		■	■	■		■	■	■	■					■	■		
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