Revision Date: 05/21/2024

Curriculum Planning & Assessment Resource

Science
Grade 1: Energy

Alberta Regional Professional Development Consortia

Dedicated to the provision of professional learning opportunities at the local, regional and provincial levels

Curriculum Planning & Assessment Resource
Science
Grade 1: Energy

About This Document

This Curriculum Planning & Assessment Resource is intended to be a collection of sample activities, assessments, and resources that teachers may wish to use as they develop their unit plans. This document is not intended to be a sequential list of activities. Rather, the intent is that teachers choose from this resource what is appropriate for their context, and sequence it their planning.

The sample activities, assessments and resources included in this document have undergone an initial review to determine appropriateness and alignment to the curriculum. However, it is expected that teachers use their professional judgment in selecting activities, assessments and resources that are appropriate for their context.

While every attempt has been made to provide credit and receive permissions, some errors or omissions may have occurred. Please contact info@arpdc.ab.ca to report any error or omissions.

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Important Links

New Learn Alberta Progressions
- Competency Progressions
- Numeracy Progressions
- Literacy Progressions

Recorded Video:
- How to Read these Curriculum Planning & Assessment Resources
- Unpacking Energy Video & Accompanying Slide Deck

Planners and Concept Maps
- Science Planner
- Assessment Planner
- K-6 Action Verbs (EN)
  - Verbes des habiletés et procédures en sciences de M à 3
- Concept Maps K-3 Science Organizing Ideas
  - Cartes conceptuelles [Idée organisatrice]

Curriculum Progressions
- Science Skills and Procedures Progression K-3
  - Progressions des habiletés et procédures en science M à 6
- K-6 Science Concept Progressions
  - Progressions des concepts

Numbered Outcomes Document

Acknowledgements

Thank you to all the teachers, curriculum specialists, and technical expertise from Alberta school divisions and ARPDC who collaborated to develop, review, and revise these planning and assessment documents to support curriculum implementation.

INTRODUCTION

Organizing Idea

Energy: Understandings of the physical world are deepened by investigating matter and energy.

Guiding Question

How can movement of objects and animals be understood?

Learning Outcome

1E1 Students investigate direction, pathway, and speed of moving objects and animals.

Summative Assessment(s) - Transfer *(In Progress)*

Summative assessments can include the following.

- *Understanding/making sense of a novel context from the real world using one or more concepts (eg. "Is this an example of diversity?). Example*
- *Understanding/making sense of a novel context using one or more understandings (eg.Students watch a video or complete a case study and explain what they viewed/interpreted through the lens of the understanding).. **Example***
- *Being able to describe why (developing predictions or hypotheses) something is unfolding, or what might happen next using learned concepts and understandings.*
- *Apply learning (create products; undertake projects; taking action such as creating a campaign) in a novel context or taking action using the understanding(s). Example*
- *Construct arguments by taking a position on a novel issue and defending it with known understandings.*

Summative Assessments: Surface, Deep and Transfer Assessment

Sample Summative Assessment: Sample Summative Assessment

Sample Summative Assessment: 1E1.1 - Guess My Animal

Computer Science & Energy Connection	Scientific Methods
• Introductory Video & Slide Deck **"Wait! What? I'm teaching Computer Science?"** ○ (Part 1) (Part 2)	• Scientific Method Introductory Video - ARPDC (How scientific method fits in the curriculum.) • **Integrating Energy and the Scientific Methods - sample unit plan for first KUSPs**

• Integrating Computer Science & Grade 1 Energy
  ○ Video Slide Deck
• Computer Science Curriculum Planning and Assessment Document (CPAR)
	• Introducing Steps in an Investigation: Grade 1
	  ○ asking questions
	  ○ making predictions
	  ○ gathering data
	  ○ forming conclusions
	• Grade 1-6 Investigation Steps Progression

• Computer Science Organizing Idea KUSP cards - use these to help understand and integrate CS KUSPs throughout teaching and learning in Science and across curricula.	
• CS Unplugged - “Computer Science without a computer”	
• ScratchJr - teach computer science outcomes using the ScratchJr app on a Chromebook, iPad or other device. This is a great way to introduce computational thinking outcomes before introducing them to block coding later.	

Click to jump!

KUSPs	1E1.1	1E1.2					

Literature Connections

KUSPs 1E1.1

Prerequisite Knowledge

Students know:

- movement is a change in position or location that happens over time.
- objects can be moved in various ways including straight lines, curves, circles, back and forth, zigzags, up and down & fast and slow.

Student Language | Essential Vocabulary & Concepts

(The Concept Project)

- **Movement**
- **Direction**
- **Pathway**
- **Speed**

Misconceptions

Students may believe that :

- movement and location are the same thing
- that location and position are the same thing
- that change in location changes thea appearance of an object.
- that all objects move only as a result of a push or pull.

I Know Statements

- I know that directions of movement can be described as up, down, forward, backward, sideways, toward & away from.
- I know that a movement pathway is the path an object or animal follows when it moves.
- I know that movement pathways can be described as, straight, curved, spiral, side to side.
- I know that objects or animals move along pathways in a variety of ways, such as rolling, bouncing, sliding.
- I know that speed can be described as fast, slow, changing, not changing.

I Understand Statements

- I understand that movement consists of direction, a pathway, and speed.

I Can Statements | Skills

- I can observe and describe the direction, pathway, and speed of objects or animals.
- I can conduct an investigation to determine how objects move.
- I can describe and record ways objects or animals move along different pathways.

KUSP 1E1.1

Learning Outcome	1E1 Students investigate direction, pathway, and speed of moving objects and animals.			
Knowledge	**Understanding**	**Skills & Procedures**	**Sample Activities & Resources** **What is Surface, Deep and Transfer**	**Assessments (formative)**
Directions of movement can be described as • up • down • forward • backward • sideways • toward • away from A movement pathway is the path an object or animal follows when it moves. Movement pathways can be described as • straight • curved • spiral • side to side Objects or animals move along pathways in a variety of ways, such as • rolling • bouncing • sliding Speed can be described as • fast • slow • changing • not • changing	Movement consists of direction, a pathway, and speed.	Observe and describe the direction, pathway, and speed of objects or animals. Conduct an investigation to determine how objects move. Describe and record ways objects or animals move along different pathways.	**Sample Surface Level Activities** **Property | Measurable Property | Using Tools** • What is a Pathway? • Describing Motion • What motion do you see? Slide Deck A Slide Deck B • Connecting Gr.1 Energy to Computer Science • RDPSD Gr 1 Energy Presentation and Workbook • ECSD Code a Human Curriculum Crate **Sample Deep Level Activities** • How Objects Move Investigation **Local/Nearby Options for Experiential Learning Excursions** • Introduce students to the sport of curling. Possibly have a community member or parents there to help. Talk about different turns put on rock during delivery. Talk about what sweeping does. • Take students bowling. Try and make bowling bowl go straight vs on a curve. Make the ball go fast vs slow. **Other Resources** • How Things Move Youtube Video • Move Fast and Slow Youtube Video **Infusing Indigenous Knowledge** • **Infusing Indigenous Knowledge into Curriculum (Grades 1-12) Website:** **Grade1 Science**: • Describe and/or investigate directions, pathways and speed of movement of objects and/or animals such as: • Rivers (flow of water)	These activities introductions to the concepts introduced in Kindergarten. These may act as pre-assessment exemplars. • What is an Object? (from kindergarten) ○ Object • What is an Observation? (from kindergarten) ○ Observing with the Senses • What is an Observable Property?(from kindergarten) ○ Property • What is a Description? (from kindergarten) ○ Description ○ Description Words (Observable/Identifiable Properties) • What is an Exploration? ○ Exploration ○ Exploring by Noticing and Wondering • Provide each student with a stuffed animal or have them bring one from home. Using large poster paper (rolled paper), have students diagram the pathway their animal uses. There may be more than one possible pathway. Students should explain their thinking.

			• Landforms - hills (travelling up and down; sideways movement) • Bird flight, movement, migration pathways (geese migration in fall; compare flight movement, types of wings - e.g., owls compared to eagles) • Animal trails and homes (migration; Peace River Hills deer trail; spider web making; otter slide) • Animal movement pathways (e.g., how mountain sheep scale rock walls) • Fish (compare in deep and shallow water) • Cut line history • Tracking (bow and arrow; slingshot) • Fire smoke directions • Rocks bouncing on water • Movement of bow and arrow, spears • Direction and movement of fire related to wind, fuel distribution ● Read animal tracks. ● Compare how animals run, fly, walk and swim. Describe when animals move in straight, curved, spiral and side to side pathways.	

Resources

Additional Websites and Resources to Support *Learning*

Indigenous Related:

- The Learning Circle: Classroom Activities on First Nations in Canada - Ages 4 to 7- **The Learning Circle** has been produced to help meet Canadian educators' growing need for elementary-level learning exercises on First Nations. It is the second in a series of four classroom guides on First Nations in Canada. See Unit 2 for Seasons.

- Learning from the Land (teacher information) - Although there is much diversity between First Nations, Métis, and Inuit, a deep and abiding connection to the land is common. Dr. Leroy Littlebear says that “The land is a sacred trust from the Creator. The land is the giver of life like a mother. The ecological aspect of Indigenous knowledge is all about the land. The land is a source of identity for Aboriginal People. CASS Resource.

General:

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Specific to Grade 1 Energy

- Energy **- ARPDC Video**
- ***Provocations:* *How Things Move* -** Hands On Ideas to Teach Force and Motion. *MyTeachingMama.*
- ***Force and Motion - Ontario Science Centre*:** Stem Education Toolkit - contains resources to assist in starting your students in their inquiry journey, beginning with their question. It also has several assessment tools readily available.
- Motion: How Things Move Next generation Science - includes the various pathways of movement.
- Patterns of Movement - STEM Science - In this activity, students demonstrate and describe how objects move in a straight line, zigzag, up and down, round and round, back and forth, and fast or slow.

- **Kids Academy: What is Energy? Energy is the ability to do something - in your child’s case, it’s his/her capacity to play over a certain period of time.**
- ***Movement of Objects* -** SuperSTAAR - Observe and describe the ways that objects can move such as in a straight line, zigzag, up and down, back and forth, round and round, and fast and slow.

General Sites to Support a Variety of Concepts in Grade 1

- ***Ontario Science Centre*:** Curriculum Resources - This photo gallery illustrates a teacher conducting the activity Mapping Storybooks with students in grades PreK and K. Scroll through Steps 1 through 7 to see how you can map storybooks to build young children's spatial thinking and language skills. Mapping the Classroom -Model for students how to use their fingers to "walk" from place to place on the map. Think aloud as you model so students hear you using the language of location.
- Instructional Planning and Teaching in Science - IOWA Department of Education

Resources Developed by School Divisions/Educational Institutions

Edmonton Catholic Pacing Guides

Edmonton Catholic Curriculum Crates

Edmonton Catholic Schools: Academic Vocabulary: Kindergarten to Grade 3

Edmonton Public Science Snippets K-3

Edmonton Public Scope and Sequence

LearnAlberta Curriculum

APRDC New Curriculum Professional Learning Resources

Alberta Science Curriculum Teacher Resources (CMASTE): Click on the Teaching Resources Tab at the top of The Home Page.

> This website hosts resources developed to support teachers in implementing the Alberta Science Curriculum initially released in 2023. The resources were created with support from the Centre for Mathematics, Science, and Technology Education (CMASTE) and contributions from students in the Faculty of Education, Elementary Education B.Ed. program. We will be continuing to add resources to this site, so please check back regularly.

SLEAKs, SPAMs and SWAGs - Sciences Resources Developed by Red Deer Public Schools:

> The purpose of this guide is to assist any kindergarten teacher in their instruction of the new science curriculum. Within this document, you will find links to external sites and resources, as well as internal resources that are organized by the coordinators of RDPSD. This is certainly a dynamic document in that it is always changing; if you have any suggestions for modifications, please do not hesitate to contact the RDPSD science coordinator. Contact Nate Siler if you have any questions.

Lesser Slave Watershed Council Classroom Presentations
Lesser Slave Forest Education Society (they are updating their programs to match the new curriculum)

Comox Valley School District #71 - Science Resources. BC Ministry of Education

Government of Canada Science Resources:
Activity Books:
Science is all around us and can be discovered, explored and used in so many ways! This new Activity Book showcases the diversity of the world of science through activities in health, energy, environment, agriculture, meteorology, astronomy, the living world and much more!
Canadian Science - History and Achievements
Select from 67 different entries of the history and achievements of Canadians in Science.
Resource links
Select from pages of activities, maps, lesson plans, videos etc. to support students of all age levels in science education.

- What Are Storylines? - Next generation Science Storylines
- **cK-12 - Free STEM teaching resources** - provides a set of online science textbooks as open educational resources. These are not aligned to NGSS but could be modified.
- ***Backyard Science:*** **https://www.ulnoowegeducation.ca/programs/backyard-science/ A FREE online curriculum-connected and culturally connected educational resource.**
- ***Let's Talk Science*** **- a large variety of sources for STEM - search your topic and grade**
- ***PBS Learning Media*** - Science - a large selection of science related resources. Review by subject, subtopic and grade.
- ***Alberta Parks*** - Alberta Parks - ABC Nature Walk
- **Hand2Mind Science Activities** - Lessons and Investigations for K-5 students Check Motion

Websites and Resources to Support *Planning*

Inclusion - Best Practices Meeting the Needs of **All Learners in Science**
Differentiation: Preview vocabulary and pre teach to students. Use various forms of media to present vocabulary including simplified explanations, visuals in the form of diagrams to label and connect concepts.

Primary Connections (teacher guides, units of study and sample assessment rubrics based on Australian Science Curriculum but offers great links and activities to our curriculum)

On the Move - *the way objects move depends on a variety of factors, including their size and shape*, in the context of inquiring about familiar objects like toys, playground equipment, and their own body.

Gizmos (Teacher Login Required)

New Learn Alberta: ***no Grade 1 match***
ExploreLearning Gizmos Site:
Request a Gizmos account: alberta@explorelearning.com

Click to jump!

KUSPs	1M1.1	1M1.2					

Literature Connections

KUSPs 1E1.2

Prerequisite Knowledge

Students should know that:

- directions of movement can be described as up, down, forward, backward, sideways, toward & away from.
- a movement pathway is the path an object or animal follows when it moves.
- movement pathways can be described as, straight, curved, spiral, side to side.
- objects or animals move along pathways in a variety of ways, such as rolling, bouncing, sliding.
- speed can be described as fast, slow, changing, not changing.

Misconceptions

Students may believe that:

- all living things move. The misconception is the belief that motion is a requirement or characteristic of living things. (plants are living things but do not move or change location)

Student Language | Essential Vocabulary & Concepts

- Influence
- Interaction

I Know Statements

- I know the movement of objects can be influenced by the shape of the object, the materials the object is made from, the surface texture of the object, interactions with other objects
- I know that wheels can make objects easier to move.

I Understand Statements

- I understand that the movement of objects can be influenced in a variety of ways.

I Can Statements | Skills

- I can demonstrate how the movement of objects can be influenced.

KUSP 1E1.2

Learning Outcome **Learner Outcome**	**1E1 Students investigate direction, pathway, and speed of moving objects and animals.**			
Knowledge	**Understanding**	**Skills & Procedures**	**Sample Activities & Resources** **What is Surface,Deep and Transfer**	**Assessments**

The movement of objects can be influenced by
• the shape of the object
• the materials the object is made from
• the surface texture of the object
• interactions with other objects
 	
Wheels can make objects easier to move.
	The movement of objects can be influenced in a variety of ways.	Demonstrate how the movement of objects can be influenced.	**Sample Surface Level Activities**
			Influence | Interaction
			
			• What is an interaction?
			  ○ Interaction
			• What does influence mean?
			  ○ Influence
			• RDPSD Gr 1 Energy Presentation and Workbook
			
			--- 	
			
			Sample Deep Level Activities
			
			• Influencing the Movement of Objects
			
			Infusing Indigenous Knowledge
			
			• **Infusing Indigenous Knowledge into Curriculum (Grades 1-12)**
			Website:
			Grade1 Science
			Investigate influences such as:
			• Wind and weather changes on smoke/fire
			• Signs that weather will change (aspen leaves flipping)
			• Shape of fish on speed
			• Rocks on flow of water
			• Inclines on animal movement
			:
			
			--- 	
			
			Other Resources
			• How Things Move (0:44)
			• Forwards - Backwards (1:19)
			• Different Things Move in Different Ways Youtube Video
				• Give each student a toy car. As an assessment, have students make their cars move in a straight line, then in a zigzag motion, back and forth, round and round, fast and slow, etc. Have them repeat their trials on different surfaces such as carpet, towel, tile etc.

Resources

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- ***Let’s Talk Science*** - **What Materials Bounce?** & How Surfaces affect Movement.

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- **Hand2Mind Science Activities** - Lessons and Investigations for K-5 students Check Motion
- Study Jams - offers a variety of resources from videos to slide decks or mini quizzes.

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</tr>
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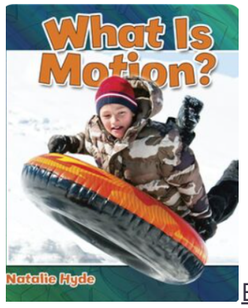
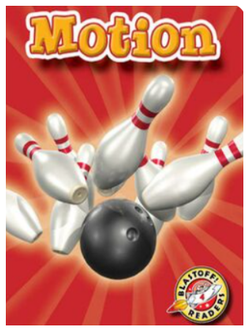
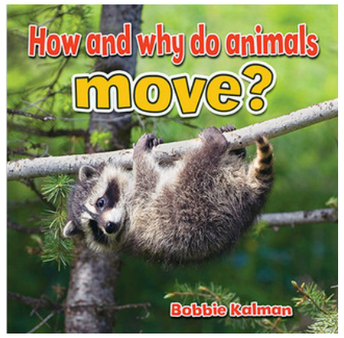
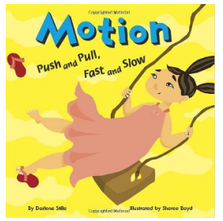
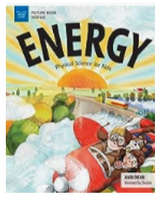
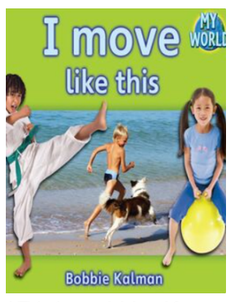
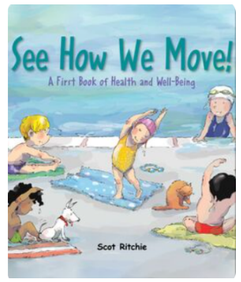
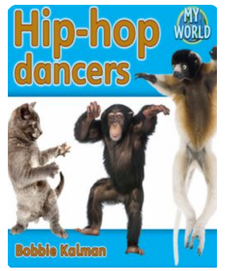
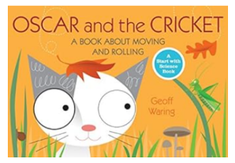
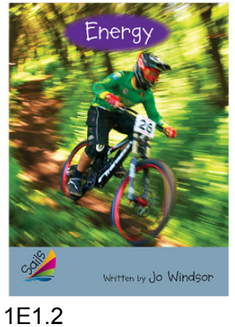
Literature Connections

KUSPs	3ES1.1	3ES1.2 (none)	3ES1.3	3ES1.4 (none)	3ES1.5	3ES1.6	3ES1.7

Title & Author	Format (Picture Book, Novel, Non-fiction, other)	Publisher & ISBN	Book & Numbered Outcome Link
What Is Motion *by* ***Natalie Hyde*** Motion is a change in an object's positionThis fascinating title explains in a clear, simple way how objects are moved by a change in energy. Simple activities show young readers how energy is changed by applying a force, either by coming in contact with an object or by a force that does not touch it physically, like gravity.	Picture Book, Non-Fiction	Crab Tree Publishing 10-0778705315 13-978-0778705314 Available through Pearson Publishing	 EPIC KE1
Motion by ***Kay Manolis*** The planets in the solar system are in constant motion as they orbit the sun. Motion is all around! Children will get an introduction to the laws of motion and learn about speed, friction, and action and reaction.	Picture Book, Non-Fiction	*Blastoff! Readers: First Science* 10-1600142257 13-978-1600142253 Available through Pearson Publishing	 EPIC KE1

How and why do animals move? by ***Bobbie Kalman*** From crawling and climbing to swimming and slithering, animals move in many ways. This action-packed book looks at motion in the animal world and the different body parts animals use to get from place to place.	Picture Book, Non-Fiction	Crab Tree Publishing 10-9780778706168 13-978-0-7787-0616-8 Available through Pearson Publishing	 KE1 EPIC
Motion: Push, Pull, Fast and Slow *by* ***Darlene Ruth Stille*** Explore the concepts of motion by learning about movement, speed, force, and inertia.	Picture Book, Non-Fiction	Nonfiction Picture Books 10-1404802509 13-978-1404802506	 1E1.2 Read Aloud - Jana's Bananas
Energy: Physical Science for Kids *by* ***Andi Diehn*** *and* ***Hui Li*** Do you have a lot of energy? What else has energy? Just about everything that moves! When you feel like running, leaping, and singing, people might say you have a lot of energy. And you're not the only one! Energy is the stuff that makes everything live and move. People, animals, plants—we all need energy to live! Young readers discover different forms of energy, including heat, light, and chemical energy, that keep the world working and moving. Simple vocabulary, detailed illustrations, easy science experiments, and a glossary all support learning for kids ages 5 to 8	Picture Book, Non-Fiction	Nomad Press 10-1619306417 13-978-1619306417	 KE1/1E1
I Move Like This *by* ***Bobbie Kalman*** Over, under, behind, between—this action-packed title uses images of children moving to help young readers understand words describing position and direction. A simple activity asks readers to match the children on the page to descriptions of movements.	Picture Book, Non-Fiction	Crabtree Publishing 10-0778794733 13-978-0778794738	 1E1.1 could be K EPIC

See How We Move *by* ***Scott Ritchie*** Pedro, Yulee, Nick, Sally and Martin are excited! Tomorrow their swim team, the Flying Sharks, will be competing in the school meet. They've been working hard to train their bodies and minds in order to swim their best. Readers follow along as the team has one last practice with their coach at the neighborhood pool. Then it's off to the races on the big day! Along the way, the friends discover the benefits of physical fitness and learn about many important aspects of active, healthy living, such as setting goals and recognizing improvement, teamwork and respect for others, safety and equipment use, coping skills and developing confidence, nutrition as fuel, mind and body connections, and so much more!	Picture Book, Non-Fiction	Kids Can Press 10-1771389672 13-978-1771389679	 KE1/1E1/2E1 EPIC YouTube - Juliann Stone
Hip-Hop Dancers *by* ***Bobbie Kalman*** Children will love the comical photographs of animals in different hip-hop dance positions! Dancing lemurs, bunnies, chimpanzees, and elephants groove to a simple rhyme pattern in this entertaining book.	Picture Book, Non-Fiction	Crabtree Publishing 10-0778794318 13- 978-0778794318	 1E1.1 EPIC
Oscar and the Cricket: A book About Moving and Rolling *by* ***Geoff Waring*** One day Oscar sees a ball in the grass. "Try pushing it!" says Cricket. Oscar learns that the ball rolls slowly in grass and faster on a path, until it bounces off a tree and changes direction. Some things need a push to move, and others use their muscles to move themselves — and to move plenty of other things, too. Back matter includes an index and supplemental activities.	Picture Book, Fiction	Candlewick 10-0763645125 13-978-0763645120	 1E1.2
Energy *by* ***Jo Windsor*** A look at different sources of energy and how they are used. Includes notes for parents and teachers.	Picture Book, Non-Fiction	Heinemann Education 10-1869444469 13-978-1869444464	 1E1.2