'		THAT BIND	
James Mandigo	Andrea Grantham	Louise Humbert	Dean Kriellars
Brock University	PHE Canada	University of	University of
Niagara, Canada	Ottawa, Canada	Saskatchewan	Manitoba

Who Are We and What are We Doing Here?





The	e Plan for The Morning	
	Advances  April  April	
	Part 1 — Physical Literacy Background	
	Setting the Framework	
□"The	e great aim education is	
not	knowledge action"	
231		
	Herbert Spencer	

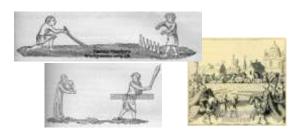
Mingle Mingle Tennis	
Sport has the power to change the world. It has the power to unite in a way that little else does.  It speaks to youth in a language they understand.  Sport can create hope where once there was only despair. It is more powerful than governments in breaking down racial barriers.  It laughs in the face of all types of discrimination.  Nelson Mandela (former President of South Africa)	
Ulama	

# Monism

□ "A human intelligence bereft of a body would be an intellectual cripple" (Sheets-Johnson, 1992, p. 43)



# Medieval



# Soft America



"In a very real and immediate sense, our growing softness, our increasing lack of physical fitness, is a menace to our national security ... such softness on the part of the individual citizen can help to strip and destroy the vitallity of a nation" (John F. Kennedy, 1960, Sports Illustrated)



# Physical literacy and health

- ☐ The Story of Pinocchio
- $\hfill \square$  Singers: He can walk and talk and fly.
- $\hfill \square$  Pinocchio: Do anything I try.
- □ Singers: He can dance, sing a tune, play a flute.
- □ Pinocchio: Do anything I try.
- □ Singers: But never never ...

move



# Why Are We Worried?

ion physical Activity is intensity physical activity delly 26% OF CANADIAN CHILDREN AND ADOLESCENTS AGED 2 TO 17 BEING OVERWEIGHT OR OBESE AND 8% BEING OBESE Only 8% of boys and 4% of girls most the Can Guildelines of 80 minutes of moderate-to-rigo

57% of Canadian children and youth

aged five to seventeen years were not sufficiently active to meet international guidelines for optimal growth and development



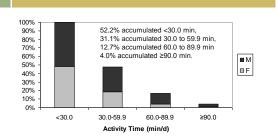
What percentage of people are active enough?

		Males	Females
All	6–11	48.9	34.7
	12-15	11.9	3.4
	16–19	10	5.4
10 min	16–19	7.1	4.1
Bouts	20-59	3.8	3.2
	60+	2.5	2.3

Self reported PA reveals 33 to 51% adherence. 6 to 14X over-estimation (age dependent).

Troiano et al 2008

# PA Adherence Grade 6



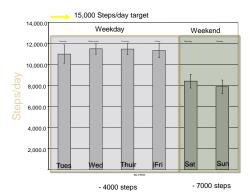
(Wittmeier, Mollard and Kriellaars, 2007)

# Kruger Report 2010 Heart and Stroke Foundation of Manitoba

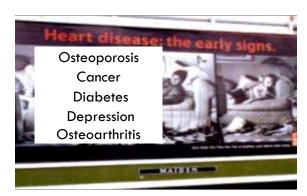
□ Physical inactivity combined with obesity and smoking cost Manitobans \$1.62 billion in 2008; the economic burden will \(\gamma\) by \$4.7 billion by 2026.

Fable 20. Leisure Time Physical Inactivity in Manitob 2003, 2005, 2007 & 2008 CCHS Ages 12 to 19			
TEN	Males	Inactive Females	Total
2003	30.7%	52.8%	26.6%
2005	34.5%	40.2%	32.2%
2007	33.6%	27.2%	30.4%
2008	27.4%	36.7%	32.0%

NOTE: Estimated from self-report data which is 6 to 14X over-estimate (age dependent).



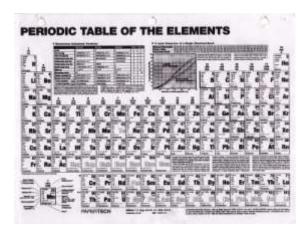
Physical Activity of Children - Weekend Parental Control.

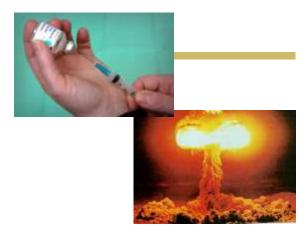


Despite our	best	intentions	we	have
failed our c	hildre	en		

We will kill them slowly, but won't hurt them quickly.











# Language Arts







# Mathematics



# Music

















# UNESCO statement for the United Nations Literacy Decade

- □ Literacy is defined as the ability to 'acquire the essential knowledge and skills that enable individuals to actively participate in all the activities for which reading and writing are needed'. UNESCO 2006
- "Literacy is crucial to the acquisition, by every child, youth, and adult of essential life skills (which) is an indispensible means for effective participation in the societies and economies of the twenty first century." United Nations 2002
  - □ You can simply replace the word literacy with physical literacy.



UNESCO statement for the United Nations Literacy Decade (2003)



- Literacy is about more than reading and writing. It is about:
  - how we communicate in society.
  - social practices and relationships, about knowledge, language and culture.

Lite	racy	Inc	lud	es
LIIC	iucy	1110	IUU	$\mathbf{c}$

- $\hfill \square$  Knowledge and Understanding
  - □ Content & comprehension of the content
- □ Thinking
  - Use of critical and creative thinking skills and/or processes
- □ Communication
  - Conveying of information through various forms
- □ Application
  - Use of knowledge and skills to make connections within and between various contexts





## Previous Literature on Physical Literacy

"To be physically literate, one should be creative, imaginative, and clear in expressive movement, competent and efficient in utilitarian movement and inventive, versatile, and skillful in objective movement. The body is the means by which ideas and aims are carried out and, therefore, it must become both sensitive and deft." (Morrison, 1968 as cited in Wall & Murray, 1994, p. 5)



# Previous Literature on Physical Literacy (Whitehead, 2007)

The motivation, confidence, physical competence, understanding and knowledge to maintain physical activity at an individually appropriate level, throughout life

- The ability and motivation to capitalise on our movement potential to make a significant contribution to the quality of life.
- Its specific expression will be particular to the culture in which we live and the movement capacities with which we are endowed.
- Poise, economy and confidence in a wide variety of physically challenging situations.
- Perceptive in 'reading' all aspects of the physical environment, anticipating movement needs or possibilities and responding appropriately to these, with intelligence and imagination.
- Well established sense of self as embodied in the world. This together with an articulate interaction with the environment engenders positive self esteem and self confidence.
- Fluent self expression through non-verbal communication and to perceptive and empathetic interaction with others.
- The ability to identify and articulate the essential qualities that influence the effectiveness of his/her own movement performance
- Has an understanding of the principles of embodied health, with respect to basic aspects such as exercise, sleep and nutrition.

## Aligning PL with Literacy



- □ Movement Vocabulary
- An individuals repertoire of movement skills (or sequence of skills)
- Movement Fluency
- The ability to execute a component of movement vocabulary with expertise.
- □ Physical Proficiency
- The ability to select and proficiently execute movement vocabulary suitable to an environment.
- □ Physical Literacy
- Physical literacy is the ability to demonstrate physical proficiencies in multiple environments.

# Physical Literacy Across the Lifespan and Sectors

- □ Sport
  - □ Fundamental movement skills terrestrial, sport based
- $\square$  Vocational
  - □ Firefighter, armed services, dry waller, iron worker, underwater welder
- □ Daily Life
  - Ability and Injury Prevention
  - Lift, carry, transfer, lower back injury and ability
  - Falls, stumble recovery, landing fracture and ability
  - ACL: Female to Male ratio is 6:1, physical literacy related?

Don't limit it to sport. Physical literacy is a critical part of being a human being. Period.

# Physical Literacy in Different Contexts

Chevy Novo







#### Process of Creating a Working Definition

- □ Develop a strong team
- □ Review the literature
- □ Set the parameters
- □ Create a working draft
- $\ \square$  Get feedback
- □ Rework, Rework, Rework
- $\hfill \Box$  Get more feedback
- □ Identify support tools needed



## Physical & Health Education Canada, 2009 Justification

Individuals who are physically literate move with competence and confidence in a wide variety of physical activities in multiple environments that benefit the healthy development of the whole person.

- bridge between the sport and education
- □ strong link to current notions of literacy
- "competence" should be viewed from an inclusive perspective - not based on population norms
- competence across a wide variety of physical activities (e.g., games, dance, fitness, gymnastics, outdoor).
- captures the "why" it is important to be physically literate - benefits the whole person (physical, cognitive, affective, etc).

#### **Full Definition**

Individuals who are physically literate move with competence and confidence in a wide variety of physical activities in multiple environments that benefit the healthy development of the whole person.

- Physically literate individuals consistently develop the motivation and ability to understand, communicate, apply, and analyze different forms of movement.
- They are able to demonstrate a variety of movements confidently, competently, creatively and strategically across a wide range of health-related physical activities.
- These skills enable individuals to make healthy, active choices that are both beneficial to and respectful of their whole self, others, and their environment.

# Check & Reflect ...

What does a physically literate person look like?







# The Plan for The Morning ...



# POLL

#### I Would Like to Learn More About ...



- Practical resources to support the development of physical literacy
- B. Physical literacy's link to education curriculum
- C Physical literacy's link to the sport sector
- Physical literacy's link to the health/ medical sector
- E. Physical literacy research
- Advocacy and physical literacy
- G. Physical literacy and university programs
- H. Physical literacy and professional development opportunities
- Physical literacy and recognition awards

#### POLL

#### I Would Like to Learn More About ...



- Practical resources to support the development of physical literacy
- B. Physical literacy's link to education curriculum
- C Physical literacy's link to the sport sector
- D. Physical literacy's link to the health/ medical sector
- E. Physical literacy research
- Advocacy and physical literacy
- G. Physical literacy and university programs
- Physical literacy and professional development opportunities
- Physical literacy and recognition awards

POLL						
I Would	Like	to	Learn	More	About	

Cł	

- A Practical resources to support the development of physical literacy
- B. Physical literacy's link to education curriculum
- C Physical literacy's link to the sport sector
- D. Physical literacy's link to the health/ medical sector
- E. Physical literacy research
- F. Advocacy and physical literacy
- G. Physical literacy and university programs
- Physical literacy and professional development opportunities
- Physical literacy and recognition awards



**BREAK** 

Physical literacy's link to education curriculur

#### **Education Poll**

- □ Does the word "physical literacy" appear in any curriculum documents in your state?
- a) Yes
- b) No



# Challenges...

- □ Education under provincial jurisdiction
  - □ No national standardized curriculum
  - Qualified Physical Education Teachers
  - □ Daily Physical Education "No time in the timetable"
- □ Accountability
- $\hfill\Box$  Physical Education and Physical Activity
- □ Facilities/Equipment
- □ Assessment



# **Provincial Curriculum Examples**

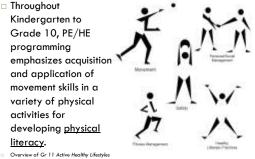






### Provincial Curriculum - Manitoba

□ Throughout Kindergarten to Grade 10, PE/HE programming emphasizes acquisition and application of movement skills in a variety of physical activities for developing <u>physical</u> literacy.



Newfoundland & Labrador **Program of Studies** 

# Intermediate Physical Education

□ The Intermediate Physical Education curriculum provides an understanding of the benefits of an active lifestyle and leads individuals to develop their personal wellness and personal movement competency and physical literacy that contribute to an active lifestyle throughout life.

Intermediate Program

Physical Literacy for Life

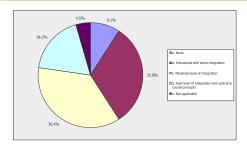
A Model for Physical Education



Physical literacy and university programs	
Linking LTAD to University Teacher Training	
The process of implementation:	
//	
<ul><li>It's complicated!</li><li>University structures vary</li></ul>	
Professors have academic freedom with respect to course	
content	
The control of the language of the control of the c	
The process of implementation: University structures vary	
Faculties, schools or departments of: education	
<ul> <li>physical education</li> <li>health, physical education, recreation, and dance</li> <li>physical education, health, and leisure studies</li> </ul>	
<ul> <li>physical education and fitness</li> <li>exercise and health science</li> </ul>	
<ul> <li>Sports studies/sport science and physical education</li> <li>exercise and sport science</li> <li>physical education and movement science</li> </ul>	
<ul> <li>movement sciences and leisure studies</li> <li>food, nutrition, and exercise science</li> </ul>	
human movement studies	

ne process of implementation: University structures vary	
-	
Canadias Universities Offering Physical Education(PE) and Klassinkogy(KIN) Degrees	
11	
Walls Congress  We congress	
المائدية	
ME, NO. PE WE UP ON HIS DE AN DE. PERMINAN	
Pre-Forum Survey (2010)	
□ N = 22 (21 different Universities)	
□ 9 Provinces	
University Poll	
To what degree is/was Physical Literacy integrated into your coursework?	
a) None	-
Introduced with some integration  Moderate level of integration	
d) High level of integration and central to core	
concepts  o) Not applicable	
o, applicable	

To what degree is Physical Literacy currently integrated into your coursework?



If Physical Literacy is currently integrated to some degree at your university, please explain how

- □ Curriculum
  - Readings
  - Lecture
  - □ Lab/ Practical
- □ Pedagogy
  - □ Teacher Education
  - Coaching Education
- $\quad \ \ \, \square \ \, \text{Research}$
- $\ \ \Box \ \ Grad \ Program$
- $\ \ \square \ \ Community \ Based \ Programs$



Do you anticipate any challenges or barriers with bringing about change or integrating Physical Literacy

- □ Mostly No ... but ...
- $\hfill \square$  Some resistance to LTAD
- $\hfill \Box$  Different theoretical perspectives
- $\hfill \square$  Relevance to students outside of PETE and Coaching Ed programs
- □ Community Barriers
- □ Integrated Model Broad Based PA vs High Performance Sport
- □ Physically Educated vs Physical Literacy
- $\hfill \Box$  How does LTAD fit with Provincial (H)PE Curriculum?

The PE Forum (2010)	
□ N = 30	
□ Deans, Directors, Faculty Members from 24	
Canadian Universities	
□ Discussed background of LTAD, PHE Canada's	
Physical Literacy Framework, Role and Challenges Facing Universities	
racing oniversines	
	_
Outcomes	
Oricomes	
Opportunities for Universities Challenges for Universities	
Research & Funding Who funds this research and how it accessed?	
Helping to provide evidence based decisions & Death by Kinesiology policies	
Role of Fundamental Movement Skills (FMS)  Teacher Education & Last 3 Stages of LTAD	
Physical Activity for All (training to train, compete, win)     Teaching Games for Understanding	
□ Eager and Energetic Students (Undergrad & □ Intellectual Property	
opportunities in the community	
Provincial PE Curriculum)	
Intramural & University Sport   Canadian Based "Textbook" for Teacher/ Health (e.g., Obesity)	
Coach Educators  Sport (e.g., Own the Podium) Pedagogy Pedagogy	
Dhysical literapy's link to the enert costor	
Physical literacy's link to the sport sector	
	-

Long Term Athlete Development (LTAD)



### Canada's Long Term Athlete Development Plan



- Active Start

   Learning proper movement skills such as running, jumping, wheeling, twisting, kicking, throwing, catching, skating & skiling

   Some organized physical activity

   Exploration of risk and limits in safe environments

   Focus on fun and maximum participation

#### FUNdamentals

- Focus on the development of fundamental skills Integrated mental, cognitive and emotional development Elements of athletics: running, jumping, wheeling, and thr Fitness activities (strength, flexibility, endurance) Introduce simple rules and ethics of sport

- Major skill learning to Train
   Major skill learning stage: all basic movement and sport skills should be learned
   Overall physical, mental, cognitive and emotional development
   Introduction to mental preparation
   Pliness development
   Introduce sport specific training + participation in other sports

# Fundamental Skill Categories





Health Benefits of Developing Fundamental Skills Lubans et al., 2010. Sports Medicine Journal 40(12)

#### Purpose:

to examine the relationship between FMS compotential health benefits in children and youth

#### Behavioural Benefits

- FMS Competency related to:
   Higher levels of physical activity
- Physiological Benefits
  - FMS Competency related to:
  - Higher cardio-respiratory fitness levels
- Psychological Benefits
  - FMS Competency related to:
  - Higher levels of perceived physical competence
- Conclusion
  - "FMS development should be included in school- and community-based interventions"

# From Constructed Mean returner Skill by In: Ch Waltern and Adolescent in Adolescent in

#### Canada's Long Term Athlete Development Plan



Canada's Long Term Athlete Development Plan	
Toronto A	
Active for Life  Daily Physical Activity = minimum of 60 minutes moderate daily physical activity, or 30 minutes of intense activity for adults Foundation of being physically literate	
Transfer from one Sport to Another Move from competitive sport to recreational sport Lifelong Participation Sport Careers Or Volunteering	
www.activeforlife.ca	
Sport Poll	
Which of the following principles do you think the concept of physical literacy could best help address in sport?	
Variety is the key for children and youth	
ы Specialization takes place later on (adolescence)	
Development of the "whole" athlete	
d) Developmental age is more important than chronological age	
The "system" is responsible for the overall development at various levels	
n Not just about developing ELITE athletes	
Practical resources to support the	
development of physical literacy	
	-



#### Physical & Health Education Canada

- > Formerly CAHPERD
- Founded in 1933, PHE Canada is a national advocacy leader for the healthy growth and development of Canadian children.
- PHE Canada is the national voice for Physical and Health Education, Intramurals and Dance Education in Canada and is the leader in the call to physically educate all Canadian children and youth.





#### Our Reach....

- > 40,000 website hits/month
- ➤ 2.5 million people in Print media coverage
- > 2,500 members
- > 150 universities and colleges
- ➤ 12,170 elementary and secondary schools
- > 450 schools boards
- > 292,119 teachers
- > 4.88 million Canadian children
- ➤ 10 million parents/caregivers



## LTAD & Education (from www.cs4l.ca)

- highlights the need for quality daily physical education.
- highlights the need to improve training for teachers in the elementary schools to understand the concept of physical literacy and LTAD and correctly model and teach fundamental movement skills and sports skills.
- encourages new courses at colleges and universities to ensure that educators and coaches are familiar with physical literacy and LTAD and can apply these when teaching and coaching.
- encourages the establishment of sport academies and Sport-Étude programs enriching the training environment during the Train to Train phase.



# PHE Canada & Physical Literacy How does PHE Canada support the implementation of Physical Literacy?



# www.phecanada.ca







# Podcast Example



Washington to the first of the same of the	
Re Manning (Drynothing for Student Laurning)  Anni Losing a valency of appropriate total ring methods?  Anni Ingrigementing unbaside progressions?  Anni Lauphing referent concepts to the lossess content?  Anni Lauphing referent concepts to the lossess content?  Anni Lauphing referent concepts to the past, present and future?	
Amil being developmentally appropriate and minimizing public companions?     Amil articulating clear and appropriate learning objectives?	
R Environment X-verting an Environment for Student Learning)  In the constraint in trajectful and individually safe disease?  Anni exhibition respect and a capting disposition?	
An in exhibiting insport and a caring disposition? An in agrossitably enthulation, particularly and energeta? Any floatering serbentic and optimally challenging learning expensions? Any floatering services and optimally challenging learning expensions? Any in transferring converse participation and accidence floatering three for all? Any in transferring readverse participation and accidence floatering three for all?	
C: Inextraction (Traction) 3 tracegies and Skills for Student Learning)  An Including students' restination to participate in physical activity in or set of school?  An Inmanaging equipment, space, transferor and groups?	
An I Internationing optional passe and making measures elegistics or   An I utilities prohodogy and non-verbal add? An Internationing international and providing appropriate feedback? Do I engage in professional growth and disodepriver?	
Professionalism Prosonal Qualities for Motivation and Instruction     Am I clearing, critical cure, assetting dung and valgating?     Dut have the recessory requires invadings and delay:	
Do I appear with-efficience, policed and confident?  Do I appear professional (e.g., efficient, programmers)?  Are identicated matter self-influence of my treating?  Are identicated with an are self-influence of my treating?  Are I applying will died valuable assessments for kenning?	
Physical Literacy Checklist	
o Example	
E Black	

## Download the Podcasts

- □ On iTunes, search Physical Literacy for Educators
- Download the podcasts and sync to your handheld device

# iTunes U

http://deimos.apple.com/WebObjects/Core.woa/Browse/brocku.ca.2056144157

# Physical Literacy Background Info



# FMS - The Series...

The **Fundamental Movement Skills** (FMS) resources are designed to support generalists teachers, physical education specialists, and coaches, as well as others tasked with teaching motor skill development.



# FMS - Elementary Resources

- Active Start & FUNdamentals Stages
- Active Start & FUNdamentals Stages For Children with Physical Disabilities
- 3. Active Start & FUNdamentals Stages For Children with Developmental and/or Behavioural Disabilities
- 4. Learning to Train Stage



# Inclusion

# Foster an environment that encourages <u>success</u> for <u>all participants.</u>

- 1. Autonomy
  - Provide students with choice i.e. various equipment, levels of difficulty
- 2. Exploration
  - Prompt students through guided discovery problem solving
- 3. Self Competition
  - Setting and achieving personal goals instead of peer competition

# FMS - Secondary Resources

Beyond the Fundamentals: A Games Approach



Alternative Activities and Pursuits

#### FMS - Active Start & FUNdamentals Stages

- Designed as a resource for teachers of children in Kindergarten to Grade 3 (5-9 years old), and for coaches of young athletes who are in the Active Start and FUNdamentals stages.
- Addresses the three major skill categories within the LTAD Model: stability skills, object manipulation skills, and locomotor skills.



#### FMS - Active Start & FUNdamentals Stages

- □ This resource includes:
  - A description and characteristics of the mature movement pattern for the 12 fundamental motor skills
  - Specific tips to help the teacher/coach develop these motor skills
  - Activities that utilize the motor skills
  - □ Checklist for assessment of the motor skills

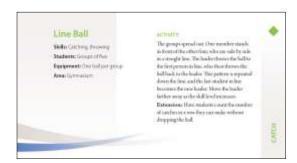
#### FMS Carabineer Cards



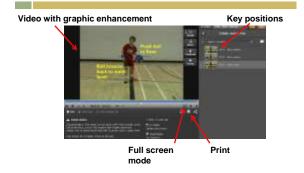








# **Dartfish TV & Mediabooks**



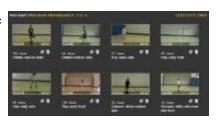
# **Dartfish TV & Mediabooks**

#### Three Stages:

- Early
- Intermediate
- Mature

#### Two Views:

- Front
- Side



# Practical Examples from Resource





# Catching - Early Development

#### Preparation

- Characteristics
  - Eyes on thrower; facing oncoming ball; arms at rest at side of body or slightly in front



- Cue Words for Children
  - Ready

# Catching - Early Development

- Characteristics
  - Arms held out toward the direction of the incoming object; feet pointing towards the object; little adjustment to the flight of the object; knees remain extended



- $\hfill \square$  Cue Words for Children
  - Move to the ball

#### Catching - Early Development

- Characteristics
  - □ Elbows remained flexed throughout; palms are open, facing upward and inward



#### Catching - Early Development

- Characteristics
  - □ Negative response to the object - eyes close as object arrives or the head turns to the side to avoid the object
- Cue words for children
  - Keep eyes on ball



#### Catching - Early Development

- Characteristics
  - Attempt to catch object with hands without bringing object down and towards the body; late catching action (arm action may be initiated before ball contact); ball bounces off fingers
- Cue Words for Children
  - □ Bring ball to chest; soft hands



#### Catching - Mature

#### Preparation

- Characteristics
  - Eyes on object to catch
- Cue Words for Children
  - □ Look



### Catching - Mature

#### Preparation

- □ Characteristics
  - Align body with incoming object
- □ Cue Words for Children
  - □ Get behind



#### Catching - Mature

- Characteristics
  - Move hands to meet object
- □ Cue Words for Children
  - □ Soft hands



#### Catching - Mature

- Characteristics
  - Hands adjust to flight and size of object; if object is above the waist the thumbs are close together (if object is below the waist little fingers are close together).



- □ Cue Words for Children
  - □ Thumbs together

#### Catching - Mature

- Characteristics
  - Elbows are bent and bend as object is brought down and toward the body
- Cue Words for Children
  - Bring to body



FMS – Active Start & FUNdamentals Stages For Children with Physical Disabilities

- This resource includes theory, tips and activities to assist in teaching motor skills with specific adaptations for children with mobility aids, mobility limitations, visual impairments, hearing impairments, and in wheelchairs.
- Address the three major skills: stability skills, object manipulation skills, and locomotor skills.



FMS – Active Start & FUNdamentals Stages For Children with Physical Disabilities

- □ This resource provides
  - A description and characteristics of the mature movement patterns for the 12 fundamental motor skills;
  - General inclusion tips for maximum participation and development of the student.
  - □ A variety of adaptations for each of the motor skills.
  - Activities that utilize the motor skills and allow for modification based on needs.

#### Practical Examples from Resource

#### Trick Catch

Skills: Catching and throwing in movement transition

- Children: Pairs
- Equipment: Balls of various sizes; one per child
- Area: Children spread out in the gymnasium
- Activity: One child begins with a simple toss and catch and the partner attempts to replicate the toss and catch. The first partner then tosses the ball and does a trick (e.g., a half turn) before catching the ball; the partner tries to replicate the trick.
- Specific Modifications: For children with mobility limitations in their upper body, allow the child to wear a Velcro glove and use a Velcro ball to facilitate catching.

#### Dartfish Video Example



#### Catch - Visual Impairment

- Characteristics
  - Arms out in front, palms cupped; elbows flexed
- $\hfill \square$  Cue Words for Children
  - Hands ready



#### Catch - Visual Impairment

- Characteristics
  - Cradle the ball with both hands or trap the ball in the midsection
- Cue Words for Children
  - Absorb the ball



#### Catch - Visual Impairment

- □ Tips
  - Use larger balls that are brightly coloured for children with partial vision.
  - Soft or deflated balls are also useful in facilitating catching.
  - Try having the child catch a ball following a bounce pass because the bounce makes a noise and gives the child an auditory cue about timing the ball's arrival.
  - Balls that make sounds can be powerful tool for children with visual impairments

FMS – Active Start & FUNdamentals Stages For Children with Developmental and/or Behavioural Disabilities

- Includes theory, tips and activities to assist in teaching motor skills with specific adaptations for children with Autism Spectrum Disorders, Down Syndrome, Attention Deficit Hyperactivity Disorder, Developmental Coordination Disorder, and Intellectual Disabilities.
- LTAD Model: stability skills, object manipulation skills, and locomotor skills.



4	1

FMS – Active Start & FUNdamentals Stages For Children with Developmental and/or Behavioural Disabilities

- This resource provides:
  - A description and characteristics of the mature movement patterns for the 12 fundamental motor skills
  - A continuum of prompts (physical, visual, verbal, none) for each skill
  - Behavioural management and pedagogical considerations
  - Inclusion tips for maximum participation and development of the student
  - Specific adaptations for each of the motor skills
  - Activities that utilize the motor skills and allow for modification

#### Practical Examples from Resource

#### Hot Potato

- Skills: Tossing, catching
- Children: Groups of four
- □ Equipment: One beanbag per group
- Area: Gymnasium
- Activity: One child stands in the middle with the beanbag, while the others spread out in a large circle. The child in the middle tosses the beanbag to one of the children in the circle. This child catches and gets rid of the beanbag as quickly as possible to the centre child. This pattern continues until everyone has caught the hot potato, and then the middle person changes. Repeat the

#### Dartfish Video Example



#### Catch

Attention Deficit Hyperactivity Disorder (ADHD)

- Characteristics
  - Arms at rest at side of body or slightly in front
- □ Cue Words for Children
  - Ready
- Behaviour Management and Pedagogical Considerations
  - Use structure and sameness for consistency.
  - Capitalize on the child's preferences for motivation (e.g., certain colours, textured balls).
  - Maintain good "timing" boredom may result in off-task behaviours,



#### Catch

Attention Deficit Hyperactivity Disorder (ADHD)

- Characteristics
  - Eyes on object to catch
- Cue Words for Children
  - Look



#### Catch

Attention Deficit Hyperactivity Disorder (ADHD)

- □ Characteristics
  - Body aligned with incoming object
- Cue Words for Children
  - Move your body to where the ball is



#### Catch

Attention Deficit Hyperactivity Disorder (ADHD)

- Characteristics
  - Move hands to meet object; elbows bent;
- □ Cue Words for Children
  - □ Bend your elbows



#### Catch

Attention Deficit Hyperactivity Disorder (ADHD)

- Characteristics:
  - Object is brought down and toward the body
- Cue Words for Children
  - Bring to body
- General Inclusion Tips
  - When pairing a child with a disability with a classmate for catching exercises, ensure that the classmate is mature and responsible enough to provide skill-appropriate throws for the child with the disability to catch.



#### FMS - Learning to Train Stage

 Designed for teachers and coaches of youth in Grade 4-8 (8-14 years old) who are in the Learning to Train stage



#### FMS - Learning to Train Stage

- This resource includes:
  - Theory, teaching tips, and activities to assist in teaching dynamic motor skills and sport specific skills
  - □ Introduction of 24 mature movement patterns
  - An assessment checklist for the various motor and sport skills
  - Elaborations and combinations of stability skills, manipulation skills, and locomotor skills;
  - Transitions to more sport-specific qualities including new fitnessrelated concepts like speed, strength, stamina, coordination, balance, and agility;
  - Development of integrating cognitive, mental, emotional, and social skills
  - Basic training and self-regulatory principles like warm-up, progression, and anxiety management.

#### Practical Examples from Resource

- Purpose: Cover, Pass, Catch (or Trap), and Dodge
- Participants: In teams of 3-6 participants playing another team.
- Equipment: Ball or implement for passing, 2 large hula-hoops, and 4 cones per group to mark the square.
- square.

  Area: Large field space with ample space for each game (about 15m x 7m).

  Description: One game consists of two teams with four players on each. One player (the hoopster) four players on each. One player (the hoopster) arone). Regularly, switch hoopsters, Players advance the ball by passing to each other but must pass within five seconds and may only take a maximum of two steps with the ball. The player with the ball tree for pass to another tearmate with the ultimate goal of earning a point by passing to the hoopster standing in the hoop or end zone.

#### Video Example - Fielding



#### FMS - Beyond the Fundamentals A Games Approach

- Involves the development of more specialized and contextually-situated variations of fundamental movement skills that are transferable to several sports
- A tactical games approach with the categories: skill development and fitness games, striking and fielding games, net and wall games, and territorial games
- Uses Teaching Games for Understanding (TGFU) approach



#### Practical Example from Resource

- Players: Teams of four to six
- Space: Gymnasium or field
- Formation: Two teams sharing a four-base diamond
- Equipment: Bases, appropriate bats and balls
- Activity level: Medium
- Tactical problems: Defence: To defend space, field the ball and pass Offence: To throwstrike the ball into open space and run the bases Skills: Running, accelerating, working on angle of approach and foot placement on each base
- Primary rule: The outside foot must touch each base
- Secondary rules: None

#### DVD Video Example



# Resource Poll □ What type of resources do you think practitioners would benefit from the most? a) Lesson Plans Video Demonstrations (podcasts, DVD) Professional development **Assessment Tools Short Activity Cards Environmental Scans/ Checklists Advocacy Tools** PHE Canada Partnership Opportunities Organizations across Canada have the opportunity to benefit by leveraging PHE Canada's: - Access to every school and school board in Canada - Knowledge of provincial curricula - Expert advice from the educational and sporting fields Educational seal of approval

Canada's Long Term Athlete Development Plan (Canadian Sport for Life)



# **EXAMPLE OF COLLABORATION**















# At My Best®

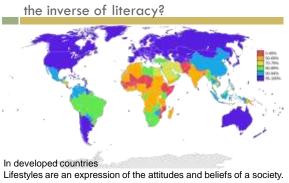
At My Best® is a Free comprehensive curriculum-supported toolkit for children in Grades Kindergarten to Grade 3 to promote and develop children's overall wellness.

- ·Physical activity
- ·Healthy eating
- •Emotional well being



Advocacy/ Partnership Poll	
<ul> <li>What "sector" should be prioritized to learn more about physical literacy?</li> <li>Education</li> <li>Government</li> <li>Sport</li> <li>Health</li> <li>Recreation</li> <li>Corporate</li> <li>Other</li> </ul>	
Physical literacy's link to the health/ medical sector	
Health Poll  What is the top health issue facing American children and youth today?  Heart Disease Diabetes Hypertension	
d) Mental Health e) Osteoporosis f) Cancer g) Infectious Disease	

The function of protecting and developing health must rank even above that of restoring it when impaired <i>Hippocrates</i>	
World Literacy Rates	
0 ergs 50 ergs 50 ergs 60 sets 60 sets 60 sets 60 sets	
World PHYSICAL Literacy Rates — is it	



#### **BORN TO MOVE**

 $\hfill\Box$  Better brain

□ Better muscle

□ Better bone

□ Better heart

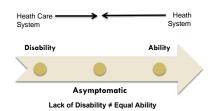
□ Better body

□ Better social life

□ Low burden on health care and society

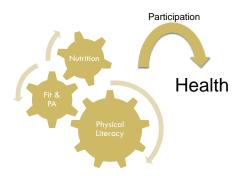
### WHO Disability Model





# Bounds of An Ability Model

М	Body Structure Impair	ment	$ \Longleftrightarrow $	Optimal
₽	Body Function Impair	ment	$\qquad \qquad \Longrightarrow$	Optimal
Drives	Physical Literacy	Illiterate	$\qquad \qquad \longrightarrow$	Literate
	Activity	Limitation	$ \Longleftrightarrow $	Unlimited
ticip	Performance	Poor		Optimal
Participation	Capacity	Low		High
	,	Peri	formance < capacity	= barrier
	Nutrition	Malnutrition		Optimal
	<u>Participation</u>	Restriction	$\qquad \qquad \longrightarrow$	Unrestricted



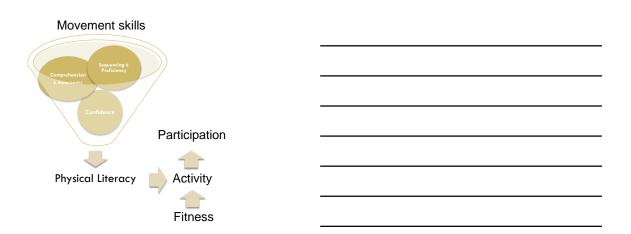
### Towards An Ability Model



Physical literacy research	Physical literacy research	
		Physical literacy research

### Research Poll

- Which of the following variables do you feel is most important to measure when conducting research on physical literacy?
- a) Health Related Fitness
- b) Skill Proficiency
- c) Activity Levels
- d) Nutrition
- e) Life Skills
- Health Knowledge



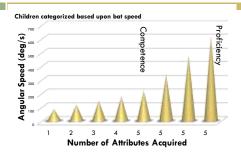
# Do we mean what we say? PL & Environments $\Box$ Land ■ Indoor □ Snow Outdoor □ Air □ Water Non-human transport □ On top Animals □ ln ■ Mechanical Under Physical Literacy **Progression & Extinction** 100 Proficiency 90 Physical Literacy 70 60 50 40 30 20 Adult MS Athlete Grade PLAY<sub>FUNDAMENTALS,</sub> 25 skill assessment, n>60 per category, N=512 Skill Assessment □ Criterion Based □ Deficiency based – itemized – ceiling effect □ Model based □ Proficiency based - subjective - trained Disability Ability

### Deficit Tools Ability Tools

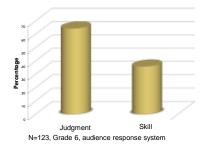
- □ Test of Gross Motor Development (TGMD-2)
- □ Bruininsk-Oseretsky Test of Motor Proficiency (BOTMP)
- □ Movement Assessment Battery for Children (M-ABC)
- □ Functional Movement Skills (FMS)

We do not identify ability by the lack of deficit!

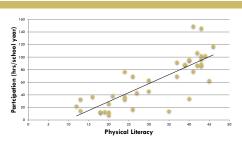
### Competence or Proficiency



Why children don't participate. Is competence the gate keeper?

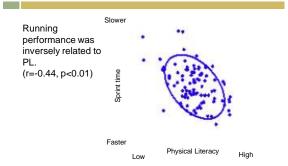


# PL and Active Participation



PLAY<sub>FUNDAMENTALS</sub>, n=39, Grade 6

#### Physical Literacy and Running Performance



### Physical Literacy in Youth

			Physical	Literacy	ΔPL
Grade	3	4	39.2	46.4	7.2
Sex	female	male	43.5	45.6	2.1
GR3	female	male	38.8	39.6	0.7
GR4	female	male	45.2	47.2	1.9
Program	PE	PE+RJT	38.6	50.8	12.2
Proficiency	GR4	Spec PE11	46.4	81.5	35.1

### **Perception of Competence**

		Lo PL (n=57)
cription Questionna	aire (PSDC	Q) (maximum of 6)
4.93 (0.68)	>NS	4.60 (1.03)
4.82 (0.81)	>**	4.08 (0.94)
5.37 (0.69)	>**	4.14 (1.32)
5.37 (0.83)	>**	4.32 (1.53)
4.93 (0.80)	>**	3.73 (1.33)
5.24 (0.71)	>**	4.10 (1.20)
4.83 (0.78)	>*	4.28 (0.94)
4.66 (0.99)	>**	3.74 (1.13)
4.21 (1.13)	>NS	3.81 (1.20)
4.89 (0.98)	>**	3.57 (1.27)
5.44 (0.46)	>**	4.87 (0.81)
	4.93 (0.68) 4.82 (0.81) 5.37 (0.69) 5.37 (0.83) 4.93 (0.80) 5.24 (0.71) 4.83 (0.78) 4.66 (0.99) 4.21 (1.13) 4.89 (0.98)	4.93 (0.68) >NS 4.82 (0.81) >** 5.37 (0.69) >** 5.37 (0.83) >** 4.93 (0.80) >** 4.93 (0.71) >** 4.83 (0.78) * 4.66 (0.99) >** 4.21 (1.13) >NS 4.89 (0.98) >**



Physical Literacy Professional Development

#### Physical Literacy Through Fundamental Movements Workshops

Interactive workshops directed at educators and coaches (but appeal to a range of participants) on creating positive learning environments in the development of physical literacy. Includes interactive activities, assessment ideas, teachable moments, support tools that are available.

Trained workshops leaders across Canada. Close to 100 workshops and more than 1200 participants in the first year.

Coming soon – online webinars and workshops.











57

Professional Development Poll	
What audience at the moment do you feel would most benefit from a workshop on physical literacy?	
Teachers	
b) Coaches	
Administrators (any sector)	
Parents	
e) Health Workers	
Community Recreation Leaders	
Post-Secondary Teachers & Researchers	
h) Government	
Other?	
Physical literacy and recognition awards	
	-
Awards Poll	
Awaras ron	-
□ Incentive programs are an effective way to	
motivate practitioners and participants to	
participate?	
a) Yes	
b) No	
c) Maybe — It Depends	
•	

	6
PASSPORT TO LIFE	6
	February 3 <sup>rd</sup> , 2012

#### Aim

•Aims to support the development and advancement of physical literacy among children and youth, and it involves the creation of resources and tools to assist teachers (and other intermediaries) in assessing levels of physical literacy, while working with those children to set individualized goals on enhancing physical literacy

\*Additionally, this program will aim to build knowledge and awareness of the importance and practice of regular participation in sport and physical activity.

#### Goals

The overall goals for the physical literacy award are to:
• Raise awareness

- Assist children and youth in their progress toward Physical literacy

These goals will be accomplished by:

- See goals will be accomplished by:

   Creating resources and tools to assist teachers (primarily through schools secondary delivery through other intermediaries) in assessing students' physical literacy levels, then work with those students to set individualized goals to enhance physical literacy levels.
- Building knowledge and awareness (among children and youth) of the importance and practice of regular participation in sport and physical activity.

### Objectives

- Children

   To teach children about what it means and why it is important to be physically literate and make healthy lifestyle choices.

   To raise children's awareness of their own fitness level, how to interpret their fitness scores, and what they can do to stay or become more physically literate.

   To equip and motivate children to be conscious of, monitor and maximize their healthy lifestyle choices, physical activity and sports that they participate in their daily lives.

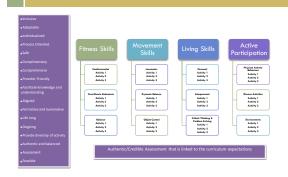
- oviders

   To gain an understanding of the physical literacy, fitness, physical activity levels and healthy living practices of school age children across Canada.

   To gain an understanding of how the healthy living practices, physical literacy, fitness and physical activity levels of school age children vary within and among jurisdictions across Canada.

   To assist children in understanding their levels of physical literacy and healthy living practices, and to assist them in setting goals and working towards goal achievement.

#### Framework



#### **Process**



#### Online Interactive Web Tools

- ·General welcome page/ overview page
- •May include sub pages directed at different audiences (i.e. teachers, school boards, parents, media).
- •Member login and password required by each teacher.
- •Host lessons/instructions of the 12 skills/activities for the pilot and 48 activities/skills for the eventual launch of the Grade 4-5 grade range.
- ·Video examples
- •Sample resources/lesson plans –to practice/strengthen skills assessed in the program.





### Data Entry

- •Provides 2 data entry points in pilot test (initial and final) and 3 data entry points for eventual launch (initial, mid-way, and final).
- Results of each student's skills/activities are uploaded and saved within each member's login site.
- •Provide a summary of each student's results at each data entry point and complete summary for total results (therefore able to demonstrate improvements).
- •Provide a summary of the class results .
- •Provide a summary of the school results .
- •Summary of student results in order to determine award .







### Credits

