

FOOD LITERACY PROGRESSION:

A Framework of Food Literacy Development for Children and Youth from 2-18 Years









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What Is **Food Literacy?**

Food literacy is a broad concept encompassing a spectrum of both tacit and procedural knowledge, skills and attitudes about food. As a form of literacy, it is the outcome of educational goals intended to inform and develop personal skills, and contribute to personal and community *empowerment and social change*¹. Food literacy increases food self-determination, and enhances health and well-being.

Why Do We **Need Food Literacy?**

We live in an incredibly complex foodscape. The widespread availability and marketing of highly processed foods in most countries has eroded food skills and knowledge, negatively impacting population health and well-being. These trends are further impacted through often erroneous or misleading food and nutrition information on social media and other platforms. We are also increasingly aware of the impact of food production and consumption on the Earth's sustainability. Consequently, the ability for people to maintain health and well-being of themselves and the planet, through food and nutrition, has paradoxically become more difficult. This is especially concerning for children and youth as they develop to become tomorrow's adults.



Every Child has a Right to **Quality Food** Education

What Is the Food **Literacy Progression?**

The Progression provides an organizationa framework for food literacy development from ages 2-18 years. The Progression is a tool that can be used to support food education by demonstrating the importance and range of food-related capabilities in human development; and the progression of knowledge, skills and attitudes required to become food literate.

Who Can Use the Food **Literacy Progression?**

The Progression can be used in many settings by educators to develop and evaluate food education programs and initiatives, and to communicate the breadth of capabilities required to be food literate. Program developers can use the Progression to plan and advocate for food literacy education and resources.

How Was the Food Literacy Progression Developed?

The Food Literacy Progression expands on the Critical Food Literacy Competencies for Youth^{1,2} framework developed at the University of Manitoba. Benchmarks are organized under three broad categories: Functional, Relational and Systems Competencies. The benchmarks were developed using principles and processes for social and emotional learning competence development³, and through a review of the literature, including Core competences for children and young people aged 5-16 years: A framework of skills and knowledge around food, diet and physical activity⁴. The Progression was assembled and reviewed by a team of Canadian home economics teachers, dietitians and nutritionists, as well as experts from the British Nutrition Foundation, and Deakin University School of Exercise and Nutrition Sciences.

¹Nutbeam, 2000 in Slater et al., 2018. Int J Cons Stud. https://onlinelibrary.wiley.com/doi/abs/10.1111/ijcs.12471 | ²Slater et al., 2016. https://umanitoba.ca/faculties/afs/dept/fhns/media/UofM_FoodLiteracyReport_DIGITALwDATE.pdf | ³Yoder & Dusenbury, 2016. American Institutes for Research. https://casel.s3.us-east-2.amazonaws.com/CASEL-Resources-Developing-Articulating-Goals.pdf | ⁴British Nutrition



FOOD LITERACY PROGRESSION COMPETENCIES

FUNCTIONAL COMPETENCIES

Confidence and **Empowerment** with Food*

NUTRITION:

Understand the link between food and health at different ages and developmental stages

Find reliable food and nutrition information

FOOD SKILLS:

Plan and prepare a range of dishes and meals using appropriate kitchen tools and equipment

BEING AN INFORMED CONSUMER:

Critically appraise food industry interests and marketing strategies

Critically evaluate food and nutrition messaging on social media platforms

Distinguish between food and nutrition facts and myths

FOOD ORIGINS:

Understand where and how food is produced

FOOD SAFETY & HYGIENE:

Use safe food handling practices when preparing, cooking and storing food

> Practice effective personal hygiene

Follow safe kitchen and equipment use procedures

OBTAINING FOOD:

Navigate food environments for health, convenience and economics

RELATIONAL **COMPETENCIES**

Joy and Meaning Through Food

EATING & COOKING WITH **OTHERS:**

Use food to promote social well-being and solidarity

POSITIVE RELATIONSHIPS WITH FOOD:

Enjoy food and eating

Be present and attentive to food and eating

well-being and self-determination

Have a positive body image of self and others

Choose food that promotes

Understand that food is more than nutrients

FOOD & CULTURE:

Enjoy food traditions, celebrations, cultural

> Understand cultural influences on food and eating

food and family recipes

Appreciate food and ways of eating from diverse cultures

SYSTEMS COMPETENCIES

Equity and Sustainability for Food Systems

SOCIAL JUSTICE:

Understand food security issues at individual, community and global levels

Discover scope of careers in food production and nutrition

Be aware of social justice implications of food production and choices

FOOD & ENVIRONMENTAL SUSTAINABILITY:

Be aware of the relationship between food and environmental sustainability

Reduce food waste

Foundation, et al, 2016. https://doi.org/10.1003/

FOOD LITERACY PROGRESSION 3 2 FOOD LITERACY PROGRESSION Cover photos by Tysen (top) and Kaba Camara (bottom)



FOOD LITERACY DEVELOPMENTAL BENCHMARKS FOR CHILDREN & YOUTH AGES 2-18

AGES 2-4

AGES 5-7

NUTRITION

Understand the link between food and health at different ages

Find reliable food and nutrition

- Recognize hunger and thirst
- Recognize that eating food is important for growth and health
- Recognize vegetables and fruit as part of meals and snacks
- Recognize that drinking water is a good way to satisfy thirst
- Identify different foods (e.g., fruit, vegetables, meat, eggs)

- Recognize that food and water are essential for life
- Recognize that a balanced and varied diet is needed to grow, be active and be healthy
- Recognize that some packaged food has added non-food ingredients (e.g., preservatives)
- Identify processed vs. whole foods (e.g., whole fruit vs. juice)
- Recognize that foods can be fresh, frozen, dried or canned
- Recognize that it is important to eat meals regularly
- Recognize that some people eat or avoid certain foods for different reasons (e.g., allergy, intolerance, religion, preference)
- Recognize appropriate portion sizes of snacks and meals
- · Choose to drink mainly water when thirsty

FOOD SAFETY & HYGIENE

Jse safe food handling practices when preparing, cooking and storing food

Follow safe kitchen and

- Willingly wash hands before eating or preparing food
- Recognize what is safe to eat and what is not (e.g., cleaners, medications, packaging)
 Recognize that to be safe, some foods must be
- cooked and/or stored in the refrigerator

 Recognize that hot food can burn
- mouth and skin
- Recognize that some kitchen equipment should be avoided or approached with caution (e.g., hot stove)
- Recognize the importance of preparing and cooking food safely and hygienically (e.g., handwashing, cleaning up, keeping work surfaces clean)
- Demonstrate readiness to cook (e.g., tie back long hair, washhands, wear an apron)
- Recognize that all food (purchased or cooked) needs to be stored in different ways to keep it safe (e.g., fridge, freezer)

FOOD ORIGINS

Understand where and how food is produced

- Recognize that all food comes from plants or animals
- Recognize that we can grow/raise some of our own food
- Differentiate foods that come from plants and animals
- Explain where food comes from (e.g., farm, sea, land, wild)
- Recognize that food can be purchased, grown at home or at school, or gathered/hunted from the land
- Recognize that different foods are sometimes produced in different seasons
- Recognize that food can be processed and packaged in different ways
- Grow a seedling
- Describe some foods that are produced locally



FUNCTIONAL COMPETENCIES

Confidence and Empowerment with Food

AGES 8-11

- Recognize that we need to eat more of some foods than others
- Use dietary guidelines as key messages for healthy eating
- Recognize that a variety of foods are required to provide different substances for body functions and health (e.g., energy, carbohydrate, protein, fat, vitamins, minerals, water and fibre)
- Explain why drinking water is healthier than sugar-sweetened beverages
- Recognize nutrition claims on food packaging, advertising and social media

AGES 12-14

- Use dietary guidelines to design varied and balanced meals and snacks
- Recognize that food and nutrient needs change through life stages
- Explain the importance of energy balance and the implications of energy excess or deficiency
- Recognize the importance of consuming appropriate proportions of foods from all the food groups (in dietary guidelines)
- Explain that human bodies contain water and need fluid from food and drinks to work properly
- Explain nutrition and health claims
- Recognize changing nutrition requirements during adolescent growth

AGES 15-18

- Use dietary guidelines to design their own diet and those of others, at different life stages (e.g., pregnancy, young children)
- Plan eating strategies that maintain a healthy weight range
- Identify different types of food processing and how they may or may not contribute to a healthy, varied diet
- Recognize that the need for water is affected by several factors (e.g., hot weather, physical activity), and recognize consequences of dehydration
- Value the role of food in personal health and well-being
- Evaluate nutrition and health claims when purchasing food
- Find reliable nutrition information
- Recognize that some nutrients depend on each other to work effectively (e.g., vitamin D and calcium)

OD SAFETY & HYGIEN

Explain that food safety means preventing contamination and spoilage when handling and storing food, so that it is safe to eat

- Demonstrate good food safety practices when getting ready to store, prepare and cook food (e.g., keep raw meat away from other food, thorough handwashing)
- Explain date-marks and storage instructions on food labels
- Explain principles of preventing cross-contamination, chilling, cooking food thoroughly, and safely reheating food
- Plan and carry out food storage, preparation and cooking safely and hygienically
- Use date-mark and storage instructions when storing and using food
- Recognize that some foods have a higher risk of food poisoning than others (e.g., raw chicken)
- Recognize that food preservation keeps food safe to eat
- Implement safe food handling when preparing, cooking and serving food (e.g., handwashing, avoiding cross-contamination)
- Use food safety information on food labels when buying, storing and consuming food
- Explain food poisoning, its symptoms and preventative measures
- Preserve foods through freezing, canning, pickling and/or drying

OD ORIGIN

Explain where and how a variety of foods/ ingredients are grown, raised, caught and processed

- Explain the basic steps in food production, including local food products
- Recognize that many foods contain additives (e.g., artificial flavourings, colours, preservatives)
- Grow basic food plants (e.g., herbs)
- Identify seasonal foods

- Recognize that food is produced, processed and sold in different ways (e.g., conventional and organic farming, greenhouses, fishing, hunting, gathering, local markets)
- Explain different stages in food production and processing
- Describe community benefits of local food production and distribution
- Recognize how geography, weather and climate influence food availability
 Recognize that many foods contain additives that help
- preserve food but some can also be harmful
 Demonstrate knowledge of basic food preservation methods (e.g., storing in refrigerator, freezing, canning)
- Explain food production and distribution systems (farming, harvesting, shipping, processing, marketing and distribution)
- Recognize the implications of food processing and food availability on current chronic health issues (e.g., obesity, heart disease, diabetes)

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AGES 2-4

AGES 5-7

AGES 12-14

AGES 15-18

FOOD SKILLS

- · Identify a variety of common foods
- Use basic tableware
- (e.g., bowls, plates, spoons, forks, etc.)
- · Recognize that meals are prepared
- Demonstrate basic food preparation (e.g., washing fruit, peeling bananas, scooping, mixing, spreading)
- Recognize that food waste is not desirable

- Recognize and taste a range of familiar foods and ingredients
- · Describe food textures, smells, flavour (i.e. the 'senses' of food
- Name and use a range of basic tools safely (e.g., small knife, chopping board, measuring spoon)
- Name and use a range of food preparation skills with supervision (e.g., peeling, slicing, mixing, scooping, grating,
- Help to prepare a range of healthy snacks, dishes and drinks safely and hygienically
- Identify ways to avoid wasting food during preparation and cooking
- Distinguish between a dish (e.g., cake, lasagna, dal) and its ingredients (e.g., flour, noodles, lentils)

• Name, taste and prepare a range of simple foods and healthy recipes, reflecting cultural diversity

AGES 8-11

- Demonstrate an increasing range of food preparation skills (e.g., accurate measuring, cutting, kneading)
- Minimize food waste and compost fruit/vegetable scraps
- · Recycle appropriate food packaging
- · Help with preparation of "food-to-go" (e.g., school lunches)
- Identify and follow basic recipes

- Use several food preparation techniques and methods when cooking a variety of foods and recipes (e.g., stir-frying, steaming, blending)
- Demonstrate how to prepare and store snacks and dishes safely, using a variety of foods, recipes, and
- Describe how to safely make use of leftovers
- · Prepare food to be eaten outside the home (e.g., school lunches)
- Choose recipes that follow dietary guidelines
- · Identify appropriate recipes for a variety of occasions and needs

- Apply skills and understanding to plan, prepare and safely cook dishes and menus for a healthy, varied and balanced diet
- Modify recipes and dishes to make them healthy and appealing by altering ingredients, and/or by using different cooking methods
- Use technology to find appropriate recipes for a variety of occasions and needs
- Plan a menu for a meal or several days, based on dietary guidelines
- Develop a repertoire of meals and snacks that can be confidently prepared and enjoyed

OBTAINING FOOD

- · Recognize that food can be bought at grocery stores, markets, restaurants, and other retail places
- Recognize that food may be grown at home or on farms; hunted, gathered or fished
- Recognize that different settings may affect food choices (e.g., home, school, restaurant)
- · Recognize that pre-packaged foods have labels which provide information to help make choices
- Explain different methods of obtaining food (e.g., grocery store, market, hunting, gathering, fishing)

· Explain factors influencing food choice (e.g., availability, season, cost, marketing, packaging, culture, religion, peer-pressure, allergy/intolerance)

- Help with food shopping and cooking at home
- Recognize the key information on food packaging (e.g., nutrition facts table, ingredient lists, claims, 'use by' date)
- · Recognize that food can be acquired through online/digital platforms
- Recognize that eating restaurant/take-out food can be more expensive than home cooking
- Identify main sections of a grocery store/supermarket (physical or online)

- Recognize less typical places to access food in the community (e.g., food banks and soup kitchens)
- Use nutrition and allergy information on food labels and ingredient lists to choose foods
- Evaluate online/digital food platforms based on criteria such as nutrition, cost, environmental impact and marketing
- · Compare costs of homemade vs. restaurant/take-out food
- Plan a food shopping list based on a meal/menu

- · Compare costs to make food choices based on budget
- Compare foods by interpreting food labels, packaging, nutrition information, and health claims
- Stock a pantry/kitchen with staple foods and ingredients
- Use a shopping list to purchase food items online or at grocery store
- Consider a range of factors when making food choices (e.g., seasonality, local food, sustainability)
- Make informed choices when purchasing foods (including digital/online) to achieve a healthy, varied, and balanced diet

BEING AN INFORMED CONSUMER

- · Appreciate food presented by parents/ caregivers
- · Recognize how food packages are designed to appeal to children
- Distinguish between food marketing and forms of children's entertainment

BEING '

- Explain how advertising and product claims can influence food choice
- Recognize food marketing in everyday environments (e.g., school, sport venues, social media, games,
- Understand emotional vs. rational decision-making and how the former is used in marketing
- Explain the influence of food marketing, advertising, and promotion on their own food behaviour
- Evaluate food marketing in everyday environments
- Recognize that social media can present inaccurate nutrition information as 'fact'
- Understand the concepts of 'diets' and 'dieting for weight loss' including potential harms
- Evaluate pros and cons of common dietary patterns (e.g., plant based, omnivore, vegetarian)
- Evaluate media/social media reports on food and nutrition and recognize potential harms
- Describe where to find credible nutrition
- Recognize nutrition misinformation aimed at young adults (e.g., promotion of unnecessary food products, dietary supplements)
- Describe strategies used by food companies to market food products (e.g., partnering with schools, health organizations, sports groups,







Food literacy increases food self-determination.

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RELATIONAL **COMPETENCIES**

SYSTEMS COMPETENCIES

AGES 2-4

AGES 5-7

POSITIVE RELATIONSHIPS WITH FOOD

Enjoy food and eating

Choose food that promotes well-being and self-determination

Have a positive body image of self and others

Understand that food is more than nutrients

- · Have a positive attitude at mealtime
- Be willing to try new foods regularly and expand taste repertoire
- Eat/drink according to body cues (thirst and hunger)
- · Describe foods based on senses: taste, touch, sight, smell, and sound
- Identify foods that they like and dislike
- Choose preferred foods from those offered

- Enjoy trying and eating new foods
- Identify foods that they like and dislike and explain why
- Recognize that body size does not equate to
- · Recognize that food meets many needs (e.g., social, pleasure, nutrition/health)
- Recognize that eating should mainly happen without watching screens

FOOD & CULTURE

Understand cultural influences

- · Enjoy own cultural foods • Identify some important
- family foods

- Enjoy cultural foods and begin to recognize the role of culture in family meals/traditions
- Recognize that people choose different types of food based on who they are with, preferences, season, mood, allergy/intolerance, religion, and

EATING & COOKING WITH OTHERS

Use food to promote social well-being and solidarity

- Enjoy eating with family and others
- Enjoy helping with family food preparation
- · Eat sociably with others
- Help select ingredients and dishes for family meals
- Help plan and prepare meals for family Practice food etiquette
- (acceptable behaviour while eating)

SOCIAL JUSTICE

Understand food security issues at individual, community and global levels

in food production and nutrition

Be aware of social justice implications of food production and choices

• Recognize that food should

be shared

- · Recognize that some people cannot afford food
- Describe hunger
- Identify who produces food

FOOD & ENVIRONMENTAL SUSTAINABILITY

Be aware of the relationship between food and environmental sustainability

Reduce food waste

- Recognize that the environment needs to be taken care of
- · Discuss impacts of food waste
- Identify waste from personal eating habits



RELATIONAL **COMPETENCIES**

SYSTEMS COMPETENCIES

AGES 8-11

Recognize that there can be reasons we eat besides hunger (e.g., social, emotional, rewarding behaviour)

- Recognize that healthy eating should focus on foods, not nutrients
- Recognize that restrictive eating (e.g., eliminating an entire food group) can be harmful
- Recognize body positivity/confidence and weight
- Have confidence in their body, and respect diverse body shapes and sizes

AGES 12-14

- Describe how eating certain foods impacts emotions and feelings
- · Identify and describe unhealthy/restrictive eating patterns and consequences
- Recognize how culture and media play a role in body image
- Explain benefits of positive body image and harmful effects of weight stigma

AGES 15-18

· Explain social and psychological roles of food and meals

- · Recognize that foods chosen at one meal, or over one day, do not represent overall eating
- Recognize when their body needs certain nutrients (e.g., water and carbohydrates for
- Identify restrictive eating patterns
- Identify strategies to increase body positivity and reduce weight stigma

• Describe family foods/food traditions · Recognize how cultural foods bring family/community together

· Taste foods from different cultures

- Value own cultural foods and those of others
 - · Describe where to access a variety of cultural foods

• Examine the role that culture plays in food

- Prepare and eat food from different cultures
- Carry on family food traditions through celebrations, cultural foods, and family recipes
- Describe the role that cultural food plays in personal and community well-being

• Value eating together with friends and family

- Take a lead role in preparing basic meals for friends and family
- Initiate meals and social eating for friends and family

insecurity

- Explain how food can bring people together
- (e.g., fosters conviviality)

• Describe barriers to accessing food in their • Identify various ways that food-providing

- animals are raised
- · Describe different jobs in food production
- Identify strategies to increase access to healthy foods
- Describe food security and associated factors • Describe agricultural animal welfare standards
- Describe strategies to improve food justice
- Discuss food sovereignty and what it means to different groups

• Engage in community action to reduce food

- Identify strategies to improve animal welfare in food production
- Consider social justice principles in food choices

- Identify environmental impacts of industrial food system (e.g., landfill, plastics in the ocean,
- Identify sustainable food production, distribution, purchasing, and storage methods
- Discuss strategies to reduce food waste
- Describe sustainability in food systems
- Describe how citizens/governments can encourage food industry to follow sustainability principles including food waste/package
- Engage in food sustainability efforts at home and school
- Explain the concept of sustainability and how it is impacted by different food choices
- · Assess the impact of food systems on the environment and local economy
- Choose and prepare foods to support sustainable eating
- · Identify threats to global food systems and opportunities to improve them

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