Center for Nutrition in Schools Department of Nutrition University of California, Davis

Project funded by the California Department of Education, Nutrition Services Division September 2009

Overview: Nutrition Education Competencies Aligned with the Health Education Standards

	OVERARCHING HEALTH CONTENT STANDARD	OVERARCHING NUTRITION EDUCATION COMPETENCY (ONEC) Students will
1	Essential health concepts: All students will comprehend essential concepts related to enhancing health.	Know the relationships among nutrition, physiology, and enhancing health.
2	Analyzing health influences: All students will demonstrate the ability to analyze internal and external influences that affect health.	Analyze internal and external factors influencing food choices and health outcomes.
3	Accessing valid health information: All students will demonstrate the ability to access and analyze health information, products, and services.	Demonstrate the ability to access nutrition information, products, and services and determine the accuracy and validity of nutrition claims.
4	Interpersonal communication: All students will demonstrate the ability to use interpersonal communication skills to enhance health.	Demonstrate the ability to use interpersonal communication skills to optimize food choices and health outcomes.
5	Decision making: All students will demonstrate the ability to use decision-making skills to enhance health.	Demonstrate the ability to use decision- making skills to optimize food choices and health outcomes.
6	Goal Setting: All students will demonstrate the ability to use goal-setting skills to enhance health.	Demonstrate the ability to use goal-setting skills to enhance nutrition and health.
7	Practicing health-enhancing behaviors: All students will demonstrate the ability to practice behaviors that reduce risk and promote health.	Demonstrate the ability to practice nutrition- related behaviors that reduce risk and promote health.
8	Health promotion: All students will demonstrate the ability to promote and support personal, family, and community health.	Demonstrate the ability to promote and support a sustainable, nutritious food supply and healthy lifestyles for families and communities.

Overarching Health Education Content Standard, Essential Health Concepts: All students will comprehend essential concepts related to enhancing health.

Corresponding Overarching Nutrition Education Competency 1:

⇒ All students will know the relationships among nutrition, physiology, and enhancing health.

Content Area: Students will:	Kindergarten	Grades 1-2	Grades 3-4	Grades 5-6	Grades 7-8	Grades 9-12
Know the six nutrient groups and their functions.	Identify the variety of foods of plant origin. Classify plant foods, such as fruits, vegetables, and grains. Identify the variety of foods of animal origin, such as eggs, fish, poultry, beef, and milk.	Describe the main functions of fat, carbohydrate, protein, vitamins, minerals, and water.	Identify and define key nutrients and their functions.*	Classify food products of plant and animal sources by the major nutrients they provide.	Identify nutrients and their relationships to health.* Describe methods to analyze the nutritional value of foods and beverages.* Name the key nutrients in each food group and investigate how the body uses these nutrients.	Classify nutrients into macronutrients and micronutrients. Explain how the Dietary Reference Intakes may be used to assess dietary quality. Define and analyze the functions of phytochemicals.
Know nutrition and health guidelines.	Name a variety of healthy foods and explain why they are necessary for energy and good health.* Identify a variety of healthy snacks.* Describe tools used to measure servings of food. State the purpose of food advertisements and commercials.	Classify various foods into appropriate food groups.* Identify the number of servings of food from each food group that a child needs daily.* Identify actions key to feeling healthy and growing a healthy body. Describe the benefits of drinking water in amounts consistent with current research-based health guidelines.*	State the recommended number of servings and serving sizes for different food groups.* Identify at least one key nutrient provided by recommended food groups. List recommendations for maintaining a healthy body and positive self-esteem. Explain the importance of drinking plenty of water, especially during	Describe the food groups, including recommended portions to eat from each food group.* Explain why some food groups have a greater number of recommended portions than other food groups.* Differentiate between more-nutritious and less-nutritious beverages and snacks.* Explain the concept of	Compare and contrast use of the current Dietary Guidelines for Americans and USDA food guide for planning healthy meals. Analyze the harmful effects of engaging in unscientific diet practices to lose or gain weight.* Explain how to use a Body Mass Index (BMI) score as a tool for measuring general health.*	Describe dietary guidelines, food groups, nutrients, and serving sizes for healthy eating habits.* Research and discuss the practical use of current research-based guidelines for a nutritionally balanced diet.* Explain the importance of variety and moderation in food selection and consumption.*

		Identify physical activities that students can enjoy and sustain for 30 minutes every day. Identify how to recognize credible nutrition information.	vigorous physical activity.*	eating in moderation.* Identify key components of the "Nutrition Facts" label.* Describe examples of how different cultures may meet dietary guidelines using a variety of foods.	Analyze the major nutritional benefits of specific plant and animal food products.	Distinguish between facts and myths regarding nutrition practices, products, and physical performance.* Explain the harmful effects of using diet pills and anabolic steroids.* Explain why people with eating disorders need professional help.*
Know factors affecting energy balance.	Recognize that we need food to provide energy. Identify why we need active play and other physical activity. Identify a form of physical activity that children enjoy at school and at home.	Describe how energy is obtained and expended during the day. Describe a variety of physical activities that will help keep children physically fit. Identify opportunities outside of school for regular participation in physical activity.*	Explain reasons for the differences in the amount of food required by individuals. Describe the benefits of moderate and vigorous physical activity.*	Define a Calorie and describe how it is used by the body. Explain how energy is obtained and expended during physical activity.	Describe methods to analyze the caloric value of foods and beverages.* Recognize that different foods contain different amounts of energy which is in the form of Calories. Compare caloric values of food according to the percent of fat, protein, and carbohydrate they contain. Identify ways to increase daily physical activity.*	Describe the amounts and types of physical activity recommended for teenagers' overall health and for the maintenance of a healthy body weight.* Compare the Calorie content of macronutrients and analyze the relationship between calorie intake and expenditure.
Describe how nutritional needs vary throughout the life cycle.	Identify one reason people of different ages need different foods.	Describe some of the different food needs people have at different ages.	Describe the amounts and types of food people need at different ages.	Name 5 life stages and list examples of special nutritional needs at each life stage. Explain the unique nutritional needs of preadolescents and compare	Compare and contrast the specific nutritional needs at each life stage.	Describe nutrition practices that are important for the health of a pregnant woman and her baby.* Identify and compare foods rich in nutrients

Identify the physiological processes in digestion, absorption, and metabolism of nutrients	Describe foods using senses: taste, touch, sight, smell, and sound.	Explain that food is used and stored by our bodies to help us have energy for growing, learning, and activity.	Illustrate the pathway of food during the process of digestion.	Explain the relationship between the intake of nutrients and metabolism.* Examine the pathway of food and its conversion to energy during the process of digestion. Describe the physiological reasons for the differences in the nutritional needs for each life stage.	Describe the benefits of eating a variety of foods high in iron, calcium, and fiber.* Illustrate how the different body systems interact.	important for adolescent and adult health in a daily diet. Assess how age, gender, activity level, and other factors influence nutritional needs during each of the five life stages. Analyze the physiological processes involved in the digestion, absorption, and metabolism of nutrients. Analyze the interaction of the different body systems and what happens when these systems do not function properly.
Explain the influence of nutrition and physical activity on health.	Recognize that eating healthy foods, such as vegetables and fruits, is beneficial for the body. Recognize the importance of a healthy breakfast.* Describe the benefits of being physically active.*	List the benefits of healthy eating (including beverages and snacks).* Discuss the benefits of eating a nutritious breakfast every day.* Explain how both physical activity and eating habits can affect a person's health.*	Describe the relationship between food intake, physical activity, and good health.* Name and explain benefits of eating fruits and vegetables. Identify the benefits of eating whole grains. Name and explain two disadvantages of beverages high in sugar.	Explain how good health is influenced by healthy eating and being physically active.* Describe the benefits of eating a nutritionally balanced diet consistent with current research-based dietary guidelines.* Identify physical, academic, mental, and social benefits of regular physical activity.*	Differentiate between diets that are health-promoting and diets linked to disease.* Identify the impact of nutrition on chronic disease.* Describe the short- and long-term impact of nutritional choices on health.* Explain the cognitive and physical benefits of eating breakfast daily.*	Describe the relationship between poor eating habits and chronic diseases such as heart disease, obesity, cancer, diabetes, hypertension, and osteoporosis.* Describe the prevalence, causes, and long-term consequences of unhealthy eating.* Identify the causes, symptoms, and harmful effects of eating disorders.*

Know	Describe how to wash	Describe how to keep	Identify how to keep	Describe safe food	Identify ways to prepare	Explain how to keep
principles of	hands before handling	food safe from harmful	food safe through proper	handling and preparation	food that are consistent	food safe through proper
handling	food.	germs.*	food preparation and	practices.	with current research-	food purchasing,
(growing,	T.14:C	T.J	storage.*	T.1	based guidelines	preparation, and storage
harvesting,	Identify one way of safely preparing foods	Identify how to safely use kitchen tools to	Explain how food can	Identify symptoms of foodborne illness.	for a nutritionally balanced diet.*	practices.*
transporting, processing,	for eating.	prepare food.	contain germs that cause	Toodborne filliess.	baranced diet. **	Compare and analyze
storing, and	for eating.	prepare rood.	illness.*	Describe ways to	Describe how to keep	food-related careers
preparing)	Name one way to store	Explain why hand	miless.	prevent foodborne	food safe through proper	such as jobs related to
foods for	food that helps to keep it	washing is important	Explain what foodborne	illness.	food purchasing,	nutrition, dietetics, food
optimal food	safe and fresh.	when preparing and	illnesses are and how		preparation, and storage	technology, culinary
quality and		eating food.	these illnesses are	Explain how food is	practices.*	arts, agricultural
safety.			contracted.	transported from farm to	•	production, and food
		Identify examples of		table, focusing on	Examine the health risks	safety.
		foods that must be	Identify a variety of	maintaining nutritional	caused by food	
		stored at cool	ways to include fruits,	quality.	contaminants.*	Describe the advantages
		temperatures, in the	vegetables, and whole		X1 10 0 11	and disadvantages of
		refrigerator or freezer.	grains in daily meals and	Identify the food	Identify careers found in	food processing,
		Describe how food is	snacks.	temperature danger	each phase of the food	including the effect on
		handled on its way from farm to table.		zone.	cycle.	food quality, safety, nutrient content, and the
		Tarin to table.		Identify examples of		environment.
				jobs related to food and		environment.
				nutrition.		
Consider the	Describe what plants	Identify two ways that	Identify foods grown in	Describe and illustrate	Explain two factors that	Explain how local,
interactions	and animals need for	geographical factors	different regions of the	the food cycle.	influence the quality and	national, and global
among	growth.	influence food	state, the country, and		quantity of food	factors influence food
nutrition	Identify edible parts of	availability and quality.	the world, and how some of those foods are	Compare and contrast types of foods produced	available locally, nationally, and globally.	intake.
science, ecosystems,	plants and trees.	Identify factors that	produced.	in specific regions of	nationarry, and grobatry.	Analyze data to
agriculture,	piants and trees.	affect the availability of	produced.	California and the	Describe how	determine the local,
and social		food, such as	List examples of foods	United States.	economics, social	national, and global
systems that		economics, location, and	that are grown in		systems, and education	influences on the
affect health,		culture.	California and in regions	Describe the relationship	impact the nutritional	quantity and quality of
including			of the United States.	between ecosystems and	status of individuals.	food.
local,		Identify foods grown in		nutrition science.		
national, and		different regions of	Describe the role of food		Examine the	Identify how social
global		California.	webs within natural	Analyze reasons why an	technological factors	conditions may
perspectives.		Nama ana haaltha	systems.	abundance of food crops	that help create the	influence food
		Name one healthy example of a food item	Explain the concept of	are grown in California.	quality and quantity of food we need.	availability.
		associated with a certain	food security.	Recognize different food	1000 we fieed.	Analyze the
	l	associated with a certain	1000 security.	Recognize unicient 1000		1 mary ze the

	country or cultural		production systems,	Examine how local,	effectiveness of the
	group.	Identify the definition of	such as organic,	national and global	different food
		nutrition science.	sustainable, and	factors influence the	production systems,
			conventional.	food cycle.	such as organic,
					sustainable, and
				Compare the different	conventional.
				food production	
				systems.	Describe the impact of
					agriculture on
					California's economy,
					and how the state's
					budget influences
					agriculture.

Overarching Health Education Standard 2: Analyzing Health Influences

All students will demonstrate the ability to analyze internal and external influences that affect health.

Corresponding Overarching Nutrition Education Competency 2:

⇒ All students will demonstrate the ability to analyze internal and external factors influencing food choices and health outcomes.

K	1-2	3-4	5-6	7-8	9-12
Identify one influence on	Describe three factors that	Identify internal and	Describe internal and	Describe the influence of	Evaluate internal and
food choices.	influence personal food	external influences that	external influences that	culture and media on body	external influences that
	choices, including seeing,	affect food choices.*	affect food choices and	image.*	affect food choices.*
Identify one practice that	smelling, and tasting.		physical activity.*		
makes mealtime		Analyze advertising and		Evaluate internal and	Assess personal barriers to
enjoyable.	Describe how taste affects	marketing techniques used	Recognize that family and	external influences on food	healthy eating and physical
	personal food choices.	for food and beverages.*	cultural influences affect	choices.*	activity.*
Give one example of a			food choices.*		
favorite food custom or	Discuss how family,	Describe the effects of peer		Compare experiences of	Distinguish between facts
food choice on a special	friends, and media	influence and social	Compare food choices from	making nutritious food	and myths regarding
holiday.	influence food choices.*	environments on food	different cultures.	choices within a variety of	nutrition practices,
		choices.		social settings.	products, and physical
Recognize that not all	Report on one historical		Describe the influence of		performance.*
products advertised or sold	reason for making certain	Identify examples of a food	advertising and marketing	Illustrate how food choices	
are good for them.*	food choices.	item associated with a	techniques on food and	from different cultures	Evaluate successful
		neighborhood, city, state, or	beverage choices.*	meet nutrient needs.	marketing and advertising
Compare the feelings of	Describe body signals that	country.			techniques.
hunger and fullness.	tell people when they are		Investigate historical	Identify how emotions	
	hungry and when they are		reasons for making certain	influence food choices, and	Explain how factors such as
	full.		food choices.	how food choices may	geography, transportation,
				affect emotions.	and world trade agreements
			Identify how heredity may		influence food choices.
			influence body size and	Analyze the impact of	
			shape.	nutritional choices on	Analyze the impact of
				future reproductive and	various influences,
			Identify how physical and	prenatal health.*	including the environment,
			psychological factors affect		on eating habits and
			taste.	Analyze the influence of	attitudes toward weight
				technology and media on	management.*
			Analyze how to respect an	physical activity* and food	
			individual's personal	choices.	
			decisions about food		
			choices.	Identify examples of	
				barriers to making healthy	
				food and fitness choices.	

Overarching Health Education Standard, Accessing Valid Health Information:

All students will demonstrate the ability to access and analyze health information, products, and services.

Corresponding Overarching Nutrition Education Competency 3:

⇒ All students will demonstrate the ability to access nutrition information, products, and services and determine the accuracy and validity of nutrition claims.

K	1-2	3-4	5-6	7-8	9-12
Demonstrate the	Identify resources for	Identify resources for valid	Locate age-appropriate	Distinguish between valid	Access sources of accurate
difference between good	reliable information about	information about safe and	guidelines for eating and	and invalid sources of	information about safe and
advice about food choices	healthy foods.*	healthy foods.*	physical activity.*	nutrition information.*	healthy weight
and advertisements for					management.*
selling products, such as		Use food labels to	Interpret information	Evaluate the accuracy of	
high-sugar cereals.		determine nutrient and	provided on food labels.*	claims about dietary	Evaluate the accuracy of claims about food and
		sugar content.*		supplements and popular diets.*	dietary supplements.*
				diets.	dietary supplements.
				Describe how to access	Describe how to use
				nutrition information about	nutrition information on
				foods offered in restaurants	food labels to compare
				in one's community.*	products.*
				Identify places where	Describe criteria for
				youths and families can be	assessing the validity of
				physically active.*	nutrition information.
				Identify trusted adults in	Evaluate the accuracy of
				one's family, school, and	claims about the safety of
				community for advice and	fitness products.*
				counseling regarding	
				healthy eating and physical	Describe community
				activity.*	programs and services that
					help people gain access to
					affordable, healthy foods.*
					Analyze Nutrition Facts
					food labels to compare
					Calorie and macronutrient
					content.

Overarching Health Education Standard 4, Interpersonal Communication:

All students will demonstrate the ability to use interpersonal communication skills to enhance health.

Corresponding Overarching Nutrition Education Competency 4:

⇒ All students will demonstrate the ability to use interpersonal communication skills to optimize food choices and health outcomes.

K	1-2	3-4	5-6	7-8	9-12
Explain how to ask family	Demonstrate how to ask	Demonstrate effective	Use communication skills	Demonstrate the ability to	Analyze positive strategies
members for healthy food	family members for healthy	communication skills to ask	to deal effectively with	use effective skills to model	to communicate healthy
options.*	food options.*	for healthy food choices.*	influences from peers and	healthy decision making	eating and physical activity
			media regarding food	and prevent over	needs at home, at school,
	Demonstrate the ability to		choices and physical	consumption of foods and	and in the community.*
	respect differences in body		activity.*	beverages.*	
	shapes and sizes.				Practice how to refuse less-
				Practice effective	nutritious foods in social
				communication skills with	settings.*
				parents, guardians, or	
				trusted adults regarding	Describe examples of
				healthy nutrition and	communication techniques
				physical activity choices.*	to ensure safe, healthy
					foods are available in our
					environment.

Overarching Health Education Standard 5, Decision Making:

All students will demonstrate the ability to use decision-making skills to enhance health.

Corresponding Overarching Nutrition Education Competency 5:

⇒ All students will demonstrate the ability to use decision-making skills to optimize food choices and health outcomes.

Describe ways to participate regularly in active play and enjoyable physical activities.* Name or show foods that are favorites to eat. Use a decision-making process to select healthy foods.* Compare and contrast healthy and less-healthy food choices for a variety of settings.* Describe how to use a decision-making process to identify healthy foods for meals and beverages.* Compare and contrast healthy and less-healthy food choices for a variety of settings.* Describe how to use a decision-making process to identify healthy food intake for meeting nutritional requirements.* Compare nutritional values of a variety of similar food items. Describe how to use a decision-making process to identify healthy food intake for meeting nutritional requirements.* Compare nutritional values of a variety of similar food items. Describe how to use a decision-making process to identify healthy food intake for meeting nutritional requirements.* (Identify recreational activities that increase physical activity.) Contrast healthy and risky approaches to weight management.* Assess the advantages and disadvantages of daily multiple vitamin and mineral supplements. Demonstrate how to use a decision-making process to identify healthy food intake for meeting nutritional requirements.* (Identify recreational activities that increase physical activity.) Contrast healthy and risky approaches to weight management.* Assess the advantages and disadvantages of daily multiple vitamin and mineral supplements. Demonstrate how to use a decision-making process to identify healthy food intake for meeting nutritional requirements.* (Identify recreational activities that increase physical activity.) Possible food intake for meeting nutritional requirements.* Use a decision-making process to determine activities that increase physical activity.) Describe how to use a decision-making process to determine activities that increase physical activity.) Describe how to use a decision-making process to determine activities that increas

Overarching Health Education Standard 6, Goal Setting:

All students will demonstrate the ability to use goal-setting skills to enhance health.

Corresponding Overarching Nutrition Education Competency 6:

⇒ All students will demonstrate the ability to use goal-setting skills to enhance nutrition and health.

K	1-2	3-4	5-6	7-8	9-12
Set a goal to use manners when consuming meals at school.	Set a short-term goal to choose healthy foods for snacks and meals.*	Make a plan to choose healthy foods and beverages.*	Monitor personal progress toward a nutritional goal.*	Make a personal plan for improving one's nutrition and incorporating physical activity into daily routines.*	Assess one's personal nutrition needs and physical activity level.* Develop practical solutions for removing barriers to healthy eating and physical activity.* Create a personal nutrition and physical activity plan based on current guidelines.*

Overarching Health Education Standard 7, Practicing health-enhancing behaviors:

All students will demonstrate the ability to practice behaviors that reduce risk and promote health.

Corresponding Overarching Nutrition Education Competency 7:

⇒ All students will demonstrate the ability to practice nutrition-related behaviors that reduce risk and promote health.

K	1-2	3-4	5-6	7-8	9-12
Select nutritious snacks.*	Examine the importance of	Practice how to take	Identify ways to choose	Develop a menu that meets	Select healthy foods and
	eating a nutritious breakfast	personal responsibility for	healthy snacks based on	the recommendations of the	beverages in a variety of
Plan a nutritious	every day.*	eating healthy foods.*	current research-based	current USDA guide for	settings.*
breakfast.*			guidelines.*	daily food choices.	
	Plan a nutritious meal.*	Practice how to take	B 1	N 1 1 14 6 1 1 :	Design menus based of
Choose healthy foods in a	C-14 b14b b *	personal responsibility for	Demonstrate how to	Make healthy food choices	food guidelines according
variety of settings.*	Select healthy beverages.*	limiting sugar consumption in foods, snacks, and	prepare a healthy meal or snack using sanitary food	in a variety of settings.*	to age, gender, and activity level.
Demonstrate hand	Examine the criteria for	beverages.*	preparation and storage	Develop a plan for making	level.
washing before handling	choosing a nutritious	beverages.	practices.*	informed decisions about	Demonstrate the use of the
or eating foods.	snack.*	Identify ways to establish	praetices.	food choices using the food	Dietary Reference Intakes
or caming rooms.		and maintain healthy eating	Demonstrate the ability to	cycle.	to assess dietary quality.
	Record foods consumed	practices consistent with	balance food intake and		J 1 J
	and use the current USDA	current research-based	physical activity.*	Explain proper food	Critique one's personal diet
	guide for daily food choices	guidelines for a		handling safety when	for overall balance of key
	to classify food groups	nutritionally balanced	Practice using the nutrition	preparing meals and	nutrients.
	selected.	diet.*	facts label and product	snacks.*	
			ingredient list on food		Identify strategies for
	*Participate in physical	Demonstrate the	products and explain how	Use unit pricing to select	eating more fruits and
	activities with friends and	preparation of a nutritious	the information provided	the healthiest foods at the	vegetables.*
	family.	snack	may help make food choices.	most economic prices.	Describe how to take more
	Demonstrate safe practices		choices.	Demonstrate food	personal responsibility for
	for handling and preparing			preparation skills to	eating healthy foods.*
	foods at school.			enhance the appeal, taste,	cating neartiny roots.
	10000 00 001001			and nutritional value of	Participate in school and
				foods.	community activities that
					promote fitness and
					health.*
					Demonstrate ways to
					purchase healthy foods
					within budget constraints.

Overarching Health Education Standard 8, Health Promotion:

All students will demonstrate the ability to promote and support personal, family, and community health.

Corresponding Overarching Nutrition Education Competency 8:

⇒ All students will demonstrate the ability to promote and support a sustainable, nutritious food supply and healthy lifestyles for families and communities.

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