Food and Nutrition

Use ladders or step stools appropriately.

CTE Utah

Strand 1: Students will consistently demonstrate food & kitchen safety procedures and sanitation techniques	
Standard 1: Apply established safety rules and guidelines in a work environment	
Identify prevention, protocol, and treatment for cuts.	
Prevention	
Use sharp knives, dull knives are more dangerous	
Hold the knife correctly, using the claw hand position on the guide hand.	p. 195
Use a stabilized cutting board.	p. 198
Hold onto the knife handle while cleaning, do not soak.	p. 197
Protocol	
Clean and sanitize the affected area and equipment as soon as possible.	
Treatment	
Minor cuts clean wound, apply bandage and wear glove.	p. 207
Sever cuts apply pressure and seek medical attention.	p. 207
Identify prevention, protocol and treatment for fires, chemical and heat-related incidents.	
Prevention	
Avoid flammable materials or clothing on or near the range.	p. 205
Turn handles away from the front of the range.	
Lift lids on hot foods to direct steam away.	
Use hot pads or oven mitts for handling hot baking pans.	
Keep equipment clean.	p. 205
Keep chemicals away from food.	
Protocol	
To extinguish a fire use the correct fire extinguisher. (A, B, C, or K)	p. 206
To extinguish a grease fire, cover/smother the pan, pour baking soda/salt. Avoid water, flour or sugar on grease fires.	p. 205
Follow manufacturer directions for all chemical use and storage, do not mix chemicals.	
Treatment	
First Degree Burn and Second Degree Burn: immerse burn in cool water or use cool compress for 10-15 minutes.	p. 207
Third Degree Burn: seek medical treatment	p. 207
For Chemical Burn: seek medical treatment or call poison control.	
Identify prevention and treatment for break, strains and sprains.	
Prevention	p. 207
Keep floors clean and dry.	P. 20
Post caution signs for wet floors.	
Store heavy items on lower shelves.	

Lift heavy items appropriately.	:07
Wear non-slip shoes.	
Treatment	
Seek medical attention. p. 20	:07
Standard 2: Identify health and hygiene requirements for food handling	
Identify proper hand washing. pp. 3	170-171
Wash hands with soap and warm water for a minimum of twenty seconds. pp. 3	170-171
Wash hands before and after handling raw meat, poultry or eggs. p. 17	.70
Wash hands after using the restroom, sneezing, coughing, changing diapers, etc. p. 17	.70
Identify appropriate clothing and hair restraints.	.71
Clean clothing or uniform. p. 17	.71
Cover and tie back hair with hair restraints before working with food.	.71
When tasting foods use clean utensils.	
Discuss the appropriate use of gloves. p. 17	.71
Single-use gloves. p. 17	.71
Wash hands before putting on gloves. p. 17	.70
Change gloves when they get dirty, torn, or changing tasks.	.71
Wear gloves when handling ready-to-eat (RTE) foods. p. 17	.71
Wear a bandage and gloves if there is a cut or open wound	
Standard 3: Recognize food-borne illness and prevention	
Identify the ways food becomes unsafe.	
Physical: fingernail, hair, metal shard, band-aid. p. 16	.65
Chemical: cleaning chemicals, sanitizers p. 16	.65
Biological: pathogens p. 16	.64
Define food-borne illness. p. 16	.64
Food-borne illness results from eating foods containing pathogens. p. 16	.65
Pathogens are any bacteria, virus, parasite, or fungi that can cause illness. p. 16	.64
Bacteria need certain conditions to grow. FATTOM: Food, Acid, Time, Temperature, Oxygen, and Moisture. p. 16	.67
Common symptoms of a food-borne illness include fever, headache, nausea, vomiting and diarrhea. p. 16	.65
Common types of food-borne illnesses may include: Campylobacter, Clostridium Perfringens, E-coli, Norovirus, Salmonella, Staphylococci, Hepatitis	
A, Botulism. p. 16	.65
Populations at most risk: Young Children, Older Adults, and Immune Compromised.	
Food will often look and smell normal even if unsafe.	
When in doubt, throw it out.	
Controlling time and temperature p. 16	.67

Foods like milk/dairy, meat, fish, eggs, poultry, shellfish/crustaceans, baked potatoes, tofu, sprouts, cooked rice, beans and vegetables, sliced melons or tomatoes, and lettuce are susceptible to pathogens. These are known as TCS foods (Time/Temperature Control for Safety).

Temperature Danger Zone: 41-135 degrees	p. 178
Foods held in the danger zone for longer than 4 hours should be thrown out.	
Time in the danger zone includes shopping, transportation, preparation, and holding for service.	p. 176
Frozen foods: 0°F	
Refrigerator/Cold Food: 41°F or below	p. 177
Holding Hot Foods: 135°F	p. 177
Seafood, Beef, Pork, Lamb: 145°F	
Ground Meats: 155° F	
Whole Poultry and Reheated food: 165°F	p. 168
Identify the ways to safely thaw TCS foods.	p. 176
In the refrigerator.	p. 176
In a sink of cold, running water or a sink/container full of cold water, change the water every 30 minutes. Prepare and use food immediately.	
The strik of cold, full ling water of a striky container fail of cold water, change the water every 30 minutes. Trepare and use 1000 minutes are	p. 176
In the microwave. Prepare and use food immediately.	p. 176
As part of the cooking process.	
Preventing cross-contact and cross-contamination	
Cross-contact is when a food item containing an allergen comes in contact with another food.	p. 168
The 9 major food allergens include: tree nuts, eggs, milk, soy, wheat, peanuts, fish, sesame, and shellfish	
Cross-contamination is the transfer of pathogens from people, surfaces, or food to food.	p. 168
Food should be stored 6 inches off the ground, label stored food correctly, and store ready-to- eat (RTE) food separately or above raw food.	
Equipment Storage: Store glasses and cups upside down on a clean, sanitized surface, and store utensils with handles up.	
Food Preparation: clean and sanitize food contact surfaces and equipment, wash hands between task, never place cooked food on/in a container	
that has previously held raw meat, poultry or seafood.	p. 169
Serving food: no bare-hand contact with RTE food.	p. 171
Cleaning and Sanitizing	
Cleaning: removes food and other dirt from surface.	p. 172
Sanitizing: reduces pathogens on surface.	p. 172
Steps to cleaning and sanitizing using a 3-compartment sink:	
Scrape, Wash, Rinse, Sanitize, Air dry	p. 172
Clean and sanitize food contact surfaces and equipment after completing a task or after 4 hours of constant use.	
Remove garbage from prep area as soon as possible.	
To reduce pest/insects, avoid crumbs or spills, keep food in airtight containers and dispose of- garbage properly.	p. 174
Strand 2: Students will apply the skills of kitchen equipment and management	
Standard 1	
Identify various types of kitchen equipment.	

p. 193

serrated knife

chef's knife	p. 193
paring knife	p. 193
strainer	
cutting board	p. 198
turner	p. 199
straight edge spatula	p. 199
colander	p. 199
pastry blender	
rubber scraper/spatula	p. 199
tongs	p. 199
whisk	p. 199
Demonstrate basic knife skills, including safety and proper handling.	p. 194
Identify the basic principles of cooking in a microwave.	p. 190
Fat, sugar, and water molecules are most affected by microwaves.	
Follow manufacturer instructions for microwave-safe cooking containers.	p. 205
Shallow, round containers cook more evenly than square containers.	
The amount of food in the microwave increases cooking and standing time.	
Standing time is the time food continues to cook after the microwave has stopped.	
Covering foods holds in moisture, helps foods cook more evenly, and prevents splattering.	
Microwave cooking does not brown foods or give it a crispy crust	
Standard 2: Identify abbreviation, food measurement terminology and demonstrate proper measuring techniques	
Identify abbreviations	
Tablespoon = T. or Tbsp	p. 141
Teaspoon = t. or tsp	p. 141
Gallon = gal.	p. 141
Quart = qt.	p. 141
Pint = pt.	p. 141
Cup = c.	p. 141
Pound = lb. or #	p. 141
Ounce = oz.	p. 141
Identify measuring techniques and tools.	
Use dry measuring cups for dry ingredients and level with a straight edge.	p. 142
Use liquid measuring cups for liquid ingredients. Measure on a flat, level surface.	p. 142
Brown sugar is packed and leveled in dry measuring cups.	p. 143
Shortening is pressed into dry measuring cups and leveled or measured using the water displacement method.	
Flour is spooned into a dry measuring cup and leveled off.	
Sugar/Salt is scooped and leveled off	
Butter is measured using the markings on the wrapper one stick/cube is generally ½ cup.	

Eggs are measured one at a time in a separate container.	
Use most effective tools for measuring. For example: use ¼ cup rather than 4 Tbsp.	
Do not measure directly over the mixing bowl	
Standard 3: Utilize equivalents and recipe adjustments	
A Standard Set of Dry measuring cups includes: 1 Cup, ½ Cup, 1/3 Cup, ¼ Cup	
A Standard Set of measuring spoons includes: 1 Tablespoon, 1 teaspoon, ½ teaspoon, and ¼ teaspoon.	
Use measuring spoons for measurements less than a ¼ cup.	
X	
3 t. = 1 T.	
4 T. = 1/4 c.	
16 T. = 1 c.	
4 qt. = 1 gal	
16 c. = 1 gal.	
8 fl. oz. = 1 c.	
2 c. = 1 pt.	
1 stick butter = ½ c.	
16 oz. = 1 lb.	
Adjust recipe size.	p. 143
When adjusting a recipe, the cooking temperature will remain the same.	
The amount of ingredients, overall length of cooking time and size or number of pans may be affected.	
Standard 4: Define cooking terms	
Chop: to cut into pieces	p. 149
Cream: Work sugar and fat together until the mixture is soft and fluffy	p. 149
Cut-In: Cut fat into flour with a pastry blender or two knives	p. 149
Fold-In: Mix ingredients by gently turning one part over another	p. 149
Mince: to cut or chop food as finely as possible	p. 149
Sauté: to brown or cook foods with a small amount of fat using low to medium heat	p. 153
Simmer: to cook just below the boiling point	
Steam: to cook by the vapor produced when water is heated to the boiling point	p. 155
Whip: Beat rapidly to introduce air bubbles into food	p. 149
Knead: To work dough until smooth and elastic which further mixes ingredients and develops gluten.	p. 149
Dice: Cut into an equal sided cube of various sizes.	p. 149
Dredge: To coat heavily with flour, breadcrumbs, or corn meal.	p. 149

p. 149

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Strand 3: Students will identify the sources and functions of carbohydrates and apply appropriate food preparation techniques

Mise en place: French for "to put into place". Gathering all necessary tools and measuring/preparing ingredients for a recipe.

Flour: To sprinkle or coat with a powdered substance often with flour, crumbs or seasonings.

Peel/Pare: To remove the skin or rind off fruits or vegetables.

Standard 1: Identify carbohydrates, their sources and functions and the importance of whole grains in the body	
Define types and functions of carbohydrates.	p. 9
Simple carbohydrates are sugars.	p. 9
These sugars include: glucose(grains, fruits & vegetables), lactose(dairy products), sucrose(table sugar), maltose(grains), and	
fructose(fruit).	p. 9
Glucose is also known as blood sugar	
These include natural sugars and refined sugar products.	p. 9
Added sugars should be limited in the diet.	
Complex carbohydrates are starches. These include whole grains, refined grains, cereal products, dried beans, rice and pasta.	p. 10
Complex starches break down into simple sugars during the digestion process.	
Refined grains should be limited in the diet.	
Fiber is a type of complex carbohydrate.	p. 10
The primary function of carbohydrates is to provide energy.	p. 10
Carbohydrates provide 4 calories per gram.	
The parts of a whole grain kernel and the nutrients provided are:	
Endosperm: starch and protein (in wheat this protein is called gluten)	p. 242
Germ: vitamins and minerals	p. 242
Bran: fiber	p. 10
Standard 2: Identify fiber, its sources and functions	
Fiber attracts water to the intestines and aids in digestion.	p. 5
Fiber helps to keep bowel movements soft and reduces constipation.	p. 47
Drink plenty of liquids, otherwise fiber can slow down or even block normal bowel function.	p. 10
The American Institute for Cancer Research recommends 30 grams of daily fiber.	
Fiber may reduce the risk of some diseases including colon and rectal cancer.	p. 47
Foods high in fiber: fruits and vegetables (especially the peels and skins), whole grains, legumes, nuts and seeds.	p. 370
Standard 3: Apply food selection and preparation guidelines related to quick & yeast breads, grains and pasta	
Quick breads: Breads made using instant leavening agents and are mixed to create limited gluten development.	p. 422
Use instant leavening agents (baking soda, baking powder, or air & eggs)	p. 422
Examples of quick bread include: muffins, pancakes, wafles, biscuits, cornbread, and fruit bread.	p. 422
Yeast Breads: Bread made using yeast as a leaving agent and are kneaded to create maximum gluten development.	p. 422
Examples of yeast breads include: rolls, bread sticks, and bread.	p. 422
Identify the function of each ingredient contained in breads.	
Flour: structure.	p. 425
Liquid: moisture.	p. 425
Leavening Agents: makes the bread rise. Examples of leavening agents for quick breads include: baking powder, baking soda, eggs and	
steam.	p. 426
Fat: tenderness, richness and some flavor.	p. 425
Salt: flavor.	

Sugar: flavor and browning.	p. 425
Identify types of rice.	n 245
Brown rice is the whole grain form of rice.	p. 245
Instant rice is precooked and then dehydrated.	
Long-grain rice stays dry and fluffy.	. 045
Short grain rice sticks together and is also known as "sticky rice".	p. 245
Identify a cooking method for conventional (not instant) rice.	047
Bring water to a boil, add rice, cover the pan and reduce the heat to a simmer.	p. 247
Preparation Ratio: 2:1 - 2 cups water to 1 cup rice.	
Cooked Ratio: 1:3 - 1 Cup uncooked rice to 3 cups cooked rice	
Types of pasta.	
Fresh Pasta: made from scratch using a simple dough recipe, rolled and cut by hand or a pasta maker or mold.	p. 247
Dry Pasta: dough pushed through a mold or cutter and dried for several days.	p. 248
Pasta Substitutes: Pasta substitutes for dietary restrictions such as: vegetable pasta, quinoa, and chickpea etc.	
Identify a cooking method for pasta.	
Bring water to a boil, Slowly add pasta so the boiling does not stop, Cook uncovered until pasta is al dente (firm to the tooth), stirring	
occasionally.	p. 248
Preparation Ratio: Use enough water to cover the pasta by several inches.	
Cooked Ratio: 1:2 – 1 cup uncooked pasta to 2 cups cooked pasta.	
Strand 4: Students will identify the sources and functions of proteins and lipids and apply appropriate food preparation techniques	
Standard 1: Identify proteins, their sources, and functions	
The primary function of protein is to build and repair body tissues.	p. 6
Protein provides 4 calories per gram.	
Amino acids are the building blocks of protein.	p. 7
There are many amino acids, nine are essential.	p. 7
The body cannot manufacture essential amino acids so they must be obtained from food.	p. 7
Complete proteins contain all nine essential amino acids. Food sources from animals such as meat, chicken, fish and milk products a	are
complete proteins.	p. 8
A plant source of complete proteins is soybeans/soy products.	p. 8
Incomplete proteins contain some, but not all, of the essential amino acids. These include but are not limited to grains, dried beans, n	ıuts,
and seeds.	p. 8
Standard 2: Identify function and preparation methods for eggs	
Eggs perform various functions in recipes such as adding texture, aeration, and formulation. This may affect substitution options for e	ggs in
recipes.	

A few of the functions of eggs:

Binder (Meat Loaf)

Thickener (Pudding)

Coating (Breading on Chicken)

Leavening agent (Angel Food Cake)

Emulsifier (Mayonnaise)Identify storage and preparation methods related to eggs.

Store eggs in the original container in the refrigerator. When properly stored in the refrigerator, eggs may be stored for several weeks.	p. 348
Methods of cooking eggs include: boiled or steamed in shell, scrambled, fried, and poached.	р. 352
Eggs are toughened by high heat	p. 352
Standard 3: Identify processing and preparation methods for milk and milk products	
Discuss processing methods for milk.	p. 342
Pasteurized milk has been heat treated to remove harmful bacteria.	p. 342
Most of the nutritional benefits of drinking raw milk are available from pasteurized milk- without the risk of disease that comes with drinking	
raw milk.	p. 342
Some of the purported health benefits of raw milk are digestibility and gut health. Raw milk dairies need to meet state regulations in order to	•
sell their product in Utah.	
Homogenized milk has had the fat particles broken down and evenly distributed so the fat will not	p. 342
separate from the milk.	
Milk is fortified with vitamins A and D.	p. 21
Explain milk preparation principles.	p. 342
Milk products scorch easily and need to be cooked at a low temperature with constant stirring.	p. 350
Heating milk in the microwave can prevent scorching.	
Milk replacements such as; almond milk, soy milk or rice milk are comparable with cow milk in regards to nutritional value and are a viable	
substitute for people with special dietary needs	p. 132
Standard 4	
Lipids (fats & oils) provide 9 calories per gram.	p. 329
Identify the functions of lipids:	
Carrier for vitamins A, D, E, and K.	
Reserve supply of energy.	p. 12
Promotes healthy skin.	
Satisfies hunger and helps one feel full longer.	
Promotes normal cell growth.	
Protects internal organs from shock and injury.	
Heat regulation and insulation for the body.	p. 12
Adds flavor to foods.	
Explain the role of cholesterol, including HDL and LDL.	p. 329
Cholesterol is essential for many body processes. Cholesterol produces hormones and bile acids. It is found in animal tissues, but is never	
present in plants.	p. 329
HDL cholesterol is "good" cholesterol because it transports excess cholesterol found in the blood stream back to the liver.	p. 329

LDL cholesterol is "bad" cholesterol because if too much LDL cholesterol is circulating in the- blood stream, it can be deposited in the arteries and increase the chance of heart disease or stroke. Identify the differences between saturated, monounsaturated, and polyunsaturated. Saturated:	p. 329
Raises the LDL and HDL levels of cholesterol in the blood. Examples: meat, poultry skin, whole milk, tropical oils, butter, shortening, and lard.	p. 330
Polyunsaturated: Lowers both the LDL and HDL cholesterol levels in the blood.	p. 330
Examples: corn oil, soybean oil, and saflower oil.	
Monounsaturated: Lowers LDL and raises HDL levels of cholesterol in the blood.	p. 330
Examples: olive oil, olives, avocados, peanuts, and canola oil	
Strand 5: Students will identify the sources and functions of select vitamins, minerals and water and apply appropri- ate food preparation	
techniques to foods high in these nutrients Standard 1: Identify select vitamins, their food sources, functions and deficiencies in the body	
Identify water-soluble vitamins:	
Vitamin C: Helps to form collagen which holds the cells together and aids in healing. Prevents scurvy. Sources include citrus, strawberries,	
broccoli and peppers.	p. 13
Folate or Vitamin B9 is one of the B Vitamins. Folate helps tissue to grow and cells to work. Folate reduces the risk of neural tube birth	
defects. Sources include legumes, dark leafy greens, citrus, and eggs.	p. 13
Identify fat-soluble vitamins:	
Vitamin A: Maintains normal vision and immune system. Prevents night blindness. Sources: Orange and dark green vegetables.	p. 13
Vitamin D: Works with the body to build and maintain healthy bones and teeth. Prevents bone- softening and loss. Sources include milk	•
products. Manufactured by the body with exposure to sunlight.	p. 13
Vitamin K: Helps blood clot properly.	p. 13
Vitamin E: Protects membranes of white and red blood cells	p. 13
Standard 2: Identify select minerals, their food sources, functions and deficiencies in the body	
Macro Mineral: Are needed in greater quantities in the body.	
Calcium(Macro mineral): Builds strong bones and teeth. Calcium deficiency causes bones to become weak this is called osteoporosis. Good sources are found in dairy products.	p. 13
Micro/Trace Mineral: Usually needed in small amounts but are critical to health.	μ. 13
Iron(Micro/Trace mineral): Helps to form the hemoglobin in red blood cells which carry oxygen throughout the body. Prevents anemia.	
Sources include red meat, spinach, black beans and dried fruit.	p. 13
Electrolytes: Minerals that help maintain fluid balance in the body, maintain the heartbeat and help muscle and nerve action.	р. 13
Sodium(Electrolytes) Helps maintain the fluid balance and blood pressure in the body. Deficiency is not generally a concern, unless over-	
hydrating. Sources include salt and processed foods.	p. 13

Standard 3: Identify the functions and importance of water in the body Carries water-souble buttamins. Carries water through the body. Regulates body temperature through perspiration. Dehydration occurs from lack of water. Thists is an indicator of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Darker urine is another indication of dehydration. Vine should be a pale yellow color. Valuation of the day. Valuation		
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Carries waste through the body. Regulates body temperature through perspiration. Regulates body temperature through perspiration. Dehydration occurs from Lack of water. Thirst is an indicator of dehydration. Urine should be a pale yellow color. Darker urine is another indication of dehydration. Water is the most important of all the essential nutrients. 64 fl. oz. of water is recommended daily. Athletes or anyone physically active needs to drink higher quantities of water, particularly in hot environments (heat of the day). Electrolyte balance and carbohydrate replacement may needed for moderate to high-intensity activities lasting longer than 60 minutes Future and 4: Apply food selection and preparation guidelines related to fruits and vegetables Fruits and vegetables contain no cholesterol and are low in calories, fat, and sodium. Always wash fresh produce to remove pesticides and dirt that may remain on the skin. Identify how to preserve nutrients in the preparation process of fruits and vegetables. Air, heat and water can reduce nutrients in fruits and vegetables. Bat raw. Good cooking methods include microwave, steam, bake/roast, stir fry/sauté. Cook in larger rather than smaller pieces when possible. Use small amounts of water and cook only until fork tender. Identify how to select fresh produce. Select fresh produce that is firm, free from decay, crisp, smooth, dense (heavy for size), free from bruises and have good color. Seasonal produce is lower in cost, plentiful and have better quality. Some produce will turn brown when cut and exposed to oxygen. Prevent enzymatic browning (oxidation) of fresh fruits. Some produce will turn brown when cut and exposed to oxygen. Prevent enzymatic browning for fresh produce by covering with liquid or dipping in an ascorbic acid liquid Strand 6: Students will explore healthy nutrition guidelines Follow a healthy eating pattern arcross the lifespan. Choose a healthy eating pattern ar an appropriate calorie level to help achieve and maintain a	Standard 3: Identify the functions and importance of water in the body	
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Drines hould be a pale yellow color. Darker urine is another indication of dehydration.	Regulates body temperature through perspiration.	p. 18
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		pp. 26-29
diet. p. 37		
	diet.	p. 37

Nutrient-dense foods provide vitamins, minerals, and other beneficial substances with relatively- few calories.	
To meet nutrient needs within calorie limits, choose a variety of nutrient-dense foods across and within all food groups in recommended	
amounts.	pp. 34-36
50-60% Carbohydrates—4 calories per gram	pp. 34-36
10-20% Protein—4 calories per gram	pp. 34-36
No more than 30% lipids—9 calories per gram.	pp. 34-36
No more than 10% should be from saturated fats.	pp. 34-36
Limit calories from added sugars and saturated fats, and reduce sodium intake.	
Reduce empty-calorie foods. Empty-calorie foods are those that are high in calories, sodium, and saturated fats with very little nutrient	
value.	
Include physical activity as part of a healthy lifestyle.	p. 95
Children and teens should be physically active for at least 60 minutes every day	
Standard 2: Explore resources for nutritional recommendations	
Identify the characteristics of MyPlate. "Make every bite count."	pp. 38 - 39
Grains—Choose 100% whole grain. Make at least half of the grains consumed whole grain.	pp. 38 - 39
Protein—Choose a variety of foods from complete and incomplete protein sources. Keep portions small and lean.	pp. 38 - 39
Vegetable—Choose a variety including fresh, frozen, canned, or dried. Eat more red, orange, and dark green vegetables.	pp. 38 - 39
Fruit—Choose whole or cut-up fruits more often than fruit juice. Make half your plate fruits and vegetables.	pp. 38 - 39
Dairy—Choose a variety of dairy products. Check for added sugars in low fat dairy products.	pp. 38 - 39
Oils – Choose vegetable oils and naturally occurring oils in foods like seafood and nuts	pp. 38 - 39