## PORTION SIZES FOR CHILDREN 1-4 YEARS

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## LEARNING POINTS

1 Young children need a nutritious balanced diet to meet their nutritional needs for activity, growth and development

2 A balanced combination of foods from all five food groups makes up a healthy diet for young children

3 The amount of food that young children eat varies widely from day to day and meal to meal. Young children do not eat set portion sizes

4 This Factsheet recommends food portion size ranges designed to ensure that the energy and nutrient requirements of young children (except for vitamin D) are all met. Children under five years all need a supplement of vitamin D

5 These portion size ranges can be used to guide how much food to offer children aged 1-4 years

6 Young children should be encouraged to eat to their appetite from at least three of the five food groups but need to be limited in the amounts they consume of milk and milk products and of the foods high in fat and sugar listed in food group 5

7 Parents can be reassured that if young children are eating within the range of portion sizes of a particular food, then they are eating an adequate amount of that food.

## Food, NuTRIENTS AND PORTION Sizes

Children aged 1-4 need a nutritious balanced diet to meet their nutritional needs for activity, growth and development.

A nutritious diet in the early years is made up of a combination of foods from the five food groups:

1. Bread, rice, potatoes, pasta and other starchy foods,
2. Fruit and vegetables,
3. Milk, cheese and yogurt,
4. Meat, fish, eggs, nuts and pulses, and
5. Foods high in fat and sugar.

Factsheet 1.2 describes how many portions from each of these five food groups toddlers need to thrive and grow.

The tables in this Factsheet provide guidance on a suitable range of portion sizes for each of the foods within each food group for young children ${ }^{1}$.

Precise or fixed portion sizes are not useful for young children because the amount of food they eat varies considerably from meal to meal and from day to day. This Factsheet therefore suggests the range of portion sizes for a variety of foods that are suitable for 2-4 year olds. In general taller and more active children will eat larger portions of some foods than smaller, less active children.

These portion size ranges have been developed by comparing them with reported average amounts eaten by healthy young children ${ }^{2,3,4,5,6}$. The energy and nutrient content of daily combinations of a variety of the foods from the tables in this Factsheet have been calculated using the midpoint of the portion size range. These daily combinations comply with healthy eating guidelines for toddlers (1-4 year olds) in Factsheets 1.1 \& 1.2 and meet the UK estimated average energy requirements ${ }^{7}$ and Reference Nutrient Intakes (RNIs) for all nutrients except vitamin D which is not expected to be met by food alone ${ }^{8}$. See Factsheet 1.1i

## Toddlers 12-24 months

Portion sizes for very young toddlers aged 12-24 months are those at the lower end of the ranges in the following tables. The energy requirements of these young toddlers are considerably lower than those for children two years and over. Hence we recommend that toddlers under two years of age are not offered sweet drinks, confectionery, chocolate or savoury snacks such as crisps as listed in Food Group 5 on page 9.

## Vitamin D

Most of young child's vitamin D needs are met not by diet, but by synthesis in the skin. The National Institute of Clinical Excellence (NICE) and the

Department of Health recommend a daily supplement of vitamin D (and vitamin A) for all children under five years in the UK in addition to eating a balanced diet ${ }^{9}$.

## See Factsheet 1.2

Allow young children to eat to their appetite Young children should be allowed to eat to their appetite from the food groups 1, 2 and 4 and allowed to stop eating when they have had enough.

They should not be urged to finish everything on their plate or to eat more than they wish to. Signals that young children have had enough are:

- shutting their mouths,
- turning their heads away,
- pushing the spoon or plate aside,
- refusing to swallow and holding food in their mouths,
- spitting food out,
- screaming or crying,
- gagging or vomiting. See Factsheet 2.2

Parents can be reassured that when young children eat a variety of foods in amounts within the range of portion sizes presented in this Factsheet, they are eating adequately. Knowing that the small portion sizes of some foods at the lower end of the ranges are adequate can reassure parents who worry that their young children are not eating enough of certain foods.

Food Group 3: Milk, cheese and yogurt
Some young children may drink too much milk and thus reduce their appetite for the iron-containing foods in the food groups 1, 2 and 4. Milk, cheese and yogurt should be limited to about three portions per day in the amounts specified in the MILK, CHEESE AND YOGURT table, on page 5, to reduce the risk of a low intake of iron.

Discontinuing milk from a bottle at around 12 months reduces the risk of:

- bottles becoming a comfort
- an excess consumption of milk.

Infants can begin drinking from a cup after about six months of age.

Food Group 5: Foods high in fat and sugar Small portion sizes have been recommended for some of the foods in this food group because these low nutrient, energy-dense foods should be limited to prevent tooth decay, overweight and obesity.
See Factsheet 3.3 \& 4.5 Young children have an innate preference for these energy-dense, and often sweet, foods. They can be included in small amounts in a balanced diet but should not be given as rewards, bribes or for comfort. See Factsheet 2.3

## The Portion Size Ranges

The tables that follow cover each of the five food groups. See Factsheet 1.2 The foods are listed in the first column, with the portion sizes (lower and upper ends of ranges) in the second column. Standard measures have been used: 1 tablespoon is a 15 ml spoon and 1 teaspoon is a 5 ml spoon.

Food Group 1: Bread, RICE, POTATOES, PASTA AND OTHER STARCHY FOODS

Offer a serving at each meal and some snacks

| BREADS | Range of portion sizes |
| :--- | :--- |
| Bagel | $1 / 4-1 / 2$ bagel |
| Bread roll | $1 / 4-3 / 4$ roll |
| Bread slices - fresh or <br> toasted | $1 / 2-1$ medium slice |
| Bread sticks | $1-3$ large breadsticks |
| Bun (e.g. hot cross)* | $1 / 4-1 / 2$ bun |
| Chapatti | $1 / 2-1$ chapatti |
| Cream $/$ wholemeal <br> crackers | $1-3$ crackers |
| Crispbread | $1 / 2-2$ crispbreads |
| Crumpet | $1 / 2-1$ crumpet |
| Maltloaf* | $1 / 8-1 / 3$ naan |
| Naan bread | $1-2$ oatcakes |
| Oatcakes | $1 / 2-1$ mini or $1 / 4-1 / 2$ <br> pitta <br> Pitta bread <br> Rice cakes |
| Scone | $1 / 2$ medium rice cakes |
| Teabread* | $1 / 2-11 / 2$ small scone |
| Tortilla | $1 / 4-1 / 2$ large tortilla |


| BREAKFAST CEREALS | Range of portion sizes |
| :---: | :---: |
| Dry flaked cereals (e.g. cornflakes / Rice Krispies ${ }^{\text {m" }} /$ Cheerios $\left.^{\text {m }}\right)^{*}$ | 3-6 heaped tablespoons |
| Muesli* | 2-4 tablespoons |
| Porridge / Ready Brek ${ }^{m}$ made up with milk / water | 5-8 tablespoons |
| Wheat biscuits (e.g. Weetabix" ${ }^{m}$ )* | 1/2-11/2 biscuits |



4 heaped tablespoons of cornflakes.

| COUSCOUS, PASTA, <br> POTATOES \& RICE | Range of portion sizes |
| :--- | :--- |
| Cassava / plantain - <br> boiled or fried | $1-3$ tablespoons |
| Couscous (cooked) | $2-4$ heaped <br> tablespoons |
| Noodles (cooked) | $1 / 2-1$ small cup |
| Pasta (cooked) | $2-5$ tablespoons |
| Pasta in tomato sauce <br> (e.g. spaghetti hoops in <br> tomato sauce) | $2-4$ tablespoons |
| Potatoes | $1 / 4-1 / 2$ medium potato |
| baked | $1 / 2-11 / 2$ egg-sized <br> potatoes |
| boiled | $4-8$ thick-cut chips |
| chips | $1-2$ mini croquettes |
| croquettes | $1-4$ tablespoons |
| mashed | $1 / 2-1$ small potato |
| roast | $1 / 2-1$ waffle |
| waffles | $2-4$ medium wedges |
| wedges | $2-5$ tablespoons |
| Rice - boiled or fried |  |

Foods marked with an asterisk (*) should be limited to mealtimes and no more than one snack per day because of their sugar content. See Factsheet 4.5

## FOOD GROUP 2: FRUIT AND <br> VEGETABLES

## Offer at least 1-2 servings at each meal and also offer them with some snacks

These are low energy, high nutrient foods - allow young children to eat larger portions if they wish to.

| FRUlTS | Range of portion sizes |
| :--- | :--- |
| Apple | $1 / 4-1 / 2$ medium apple |
| Avocado | $1 / 2-2$ tablespoons |
| Banana | $1 / 4-1$ medium banana |
| Clementine / tangerine / <br> mandarin | $1 / 2-1$ fruit |
| Dried apricots / prunes* | $1-4$ whole fruits |
| Dried fruit snack bar* | $1 / 2-1(15 g)$ bar |
| Fruit salad | $1 / 2-1$ small bowl |
| Grapes and berries <br> (e.g. blackberries / <br> blueberries / raspberries <br> / strawberries) | $3-10$ small grapes / <br> berries |
| Kiwifruit / plum / apricot | $1 / 2-1$ fruit |
| Mango | $1 / 4-1 / 2$ mango |
| Melon | $1 / 4-1$ thin slice |
| Orange | $1 / 4-1 / 2$ orange |
| Peach / nectarine | $1 / 4-1$ whole fruit |
| Pear | $1 / 4-3 / 4$ whole fruit |
| Pineapple | $1 / 4-1$ medium slice |
| Raisins / sultanas* | $1 / 2-2$ tablespoons |
| Stewed fruit / tinned <br> fruit / fruit puree | $2-4$ tablespoons |


$1 / 3$ medium banana.


3 small florets of broccoli.

| VEGETABLES | Range of portion sizes |
| :--- | :--- |
| Bamboo shoots | $1 / 2-2$ tablespoons |
| Beetroot | $1 / 2-2$ tablespoons |
| Broccoli / cauliflower | $1-4$ small florets or <br> $1 / 2-2$ tablespoons |
| Brussels sprouts | $1 / 2-3$ sprouts |
| Cabbage | $1-3$ tablespoons |
| Carrot | $1-3$ tablespoons / <br> $2-6$ carrot sticks |
| Celery / cucumber / <br> radishes / peppers / <br> other salad vegetables | $2-8$ small sticks / slices |
| Cherry tomatoes | $1-4$ cherry tomatoes |
| Courgettes / squash / <br> okra / aubergine | $1 / 2-2$ tablespoons |
| Green / French beans | $1 / 2-2$ tablespoons |
| Leeks / onions / shallots | $1 / 2-2$ tablespoons |
| Lettuce | $1-2$ small leaves |
| Mange tout | $2-8$ mange touts |
| Mixed vegetables | $1 / 2-2$ tablespoons |
| Mushrooms | $1-4$ button mushrooms |
| Parsnip | $1 / 2-2$ tablespoons |
| Peas | $1 / 2-2$ tablespoons |
| Spring greens / spinach <br> (cooked) | $1 / 2-2$ tablespoons |
| Stir fried or roasted <br> vegetables | $1 / 2-2$ tablespoons |
| Swede / turnip | $1 / 2-2$ tablespoons |
| Sweet corn | $1 / 2-2$ tablespoons |
| Tomato | $160-125$ ml) small tomato |
| Vegetable soup | small bowl |

Foods marked with an asterisk ( ${ }^{*}$ ) should be limited to mealtimes and no more than one snack per day because of their sugar content. See Factsheet 4.5

## Food Group 3: MILK, CHEESE AND YOGURT

## Serve about 3 times each day

An excess of these foods can reduce the appetite for iron-containing foods from the other food groups so limit serving sizes to those indicated. Milk should be given in a cup, mug or glass - not a bottle.
See Factsheet 1.2 Semi skimmed milk can be used from two years of age and skimmed milk from five years of age for children who eat a wide variety of foods.


125 ml pot of yogurt.

| MILK | Range of portion sizes |
| :--- | :--- |
| Breast milk | $5-10$ minutes <br> breastfeeding |
| Cow's milk as a drink | 1 cup of milk <br> $(100-120 \mathrm{ml} / 3-4 \mathrm{oz})$ |
| Flavoured milk (e.g. <br> chocolate / strawberry)* | 1 cup of milk <br> $(100-120 \mathrm{ml} / 3-4 \mathrm{oz})$ |
| Formula milk, Growing <br> Up milk or Calcium <br> enriched soya milk* | 1 cup of milk <br> $(100-120 \mathrm{ml} / 3-4 \mathrm{oz})$ |


| YOGURTS AND <br> MILK PUDDINGS | Range of portion sizes |
| :--- | :--- |
| Yogurt | 1 average pot $(125 \mathrm{ml})$ |
| Fromage frais | 2 small pots ( 60 g each) |
| Calcium enriched soya <br> dessert* | 1 average pot $(125 \mathrm{ml})$ |
| Custard* | $5-7$ tablespoons |
| Milk pudding* | $4-6$ tablespoons |
| Rice pudding* | $2-5$ tablespoons |



120 ml of milk.

| CHEESE | Range of portion sizes |
| :---: | :---: |
| Cheese sauce | 1-4 tablespoons |
| Cheddar / Edam / <br> Parmesan / Brie / <br> Camembert / Mozzarella | in a sandwich or as a pizza topping |
| Cottage / ricotta cheese | $1 / 2-1$ tablespoon in a sandwich |
| Grated cheese | 2-4 tablespoons as a pizza topping or in a sandwich |
| Processed cheese | 15-21g (1 slice / 1 triangle or string / 1 Mini Babybel"') |
| Spreadable cheese | thickly spread on a slice of bread |



1 Mini Babybel ${ }^{\text {m }}$ (20g).

Foods marked with an asterisk $\left(^{*}\right.$ ) should be limited to mealtimes and no more than one snack per day because of their sugar content. See Factsheet 4.5

FOOD GROUP 4: MEAT, FISH, EGGS, NUTS AND PULSES

Serve 2-3 times per day - twice for young children eating meat and fish and 3 times a day for vegetarians

| MEAT | Range of portion sizes |
| :--- | :--- |
| Bacon | $1 / 4-1$ rasher |
| Beef | $1 / 2-1$ slice |
| Beef burger / lamb <br> burger without bun | $1 / 4-1$ small burger |
| Chicken | $1-2$ small slices |
| Chicken drumsticks | $1 / 2-1$ drumstick |
| Chicken nuggets | $2-4$ small nuggets |
| Chicken / turkey burger <br> without bun | $1 / 4-1$ small burger |
| Duck | $1-2$ slices of breast <br> meat |
| Frankfurter | $1 / 2-1$ small frankfurter |
| Ham | $1 / 2-11 / 2$ small slices |
| $11 / 2-4$ wafer thin slices |  |
| Lamb | $1 / 2-1$ slice |
| Lamb's liver | $1 / 2-1$ thin slice |
| Liver pate | $1-2$ tablespoons |
| Minced meat | $2-5$ tablespoons |
| Pork | $1 / 2-2$ small slices |
| Rabbit | $1-2$ slices |
| Salami | $1-2$ slices |
| Sausages | $1 / 4-1$ medium sausage |
| Sausages - cocktail | $1-3$ cocktail sausages |
| Turkey | $1-2$ slices of breast or |
| dark meat |  |



3 tablespoons of cooked minced meat.


1 tablespoon of tuna mayonnaise.

| FISH | Range of portion sizes |
| :--- | :--- |
| Fish: white / oily fresh <br> fish | $1 / 4-1$ small fillet or $1-3$ <br> tablespoons |
| Shell fish: prawns, <br> mussels etc | $11 / 2-2$ tablespoons |
| Taramasalata | $1-2$ tablespoons |
| Tinned fish in a <br> sandwich / salad <br> (e.g. tuna / salmon / <br> sardines) | $1 / 2-11 / 2$ tablespoons |



1 small slice of ham.

| EGGS | Range of portion sizes |
| :--- | :--- |
| Omelette (1 egg) | $1 / 2-1$ omelette |
| Poached / boiled / fried | $1 / 2-1$ egg |
| Scrambled egg | $2-4$ tablespoons |


| NUTS | Range of portion sizes |
| :--- | :--- |
| Ground or crushed nuts | $1-2$ tablespoons |
| Peanut butter or other <br> nut butters | $1 / 2-1$ tablespoon or <br> thinly spread on bread |


| PULSES | Range of portion sizes |
| :--- | :--- |
| Baked beans in tomato <br> sauce | $2-4$ tablespoons |
| Bhajis or pakora made <br> with chickpea flour | $1 / 2-11 / 2$ bhajis or <br> pakoras |
| Chickpeas / hummus | $1-2$ tablespoons |
| Dhal / cooked lentils | $2-4$ tablespoons |
| Falafels | $1-3$ mini falafels <br> $(25 g$ each $)$ |
| Red kidney beans / <br> bean salad / other <br> starchy beans | $2-4$ tablespoons |
| Tofu | $2-4$ tablespoons |


$31 / 2$ tablespoons of baked beans on toast.


1 small bowl of soup (90-125ml).

## FOOD GROUP 5: FOODS HIGH

IN FAT AND SUGAR

## Biscuits, cakes and puddings - include once a day

These foods add enjoyment to meals and snacks but as they are high energy, low nutrient foods the maximum serving size should be limited to the upper end of the range. Cake or biscuit can be served with fruit to make a nutritious pudding. Sugary foods can cause tooth decay when given on more than four occasions per day. See Factsheet 4.5

| BISCUITS, CAKES <br> AND PUDDINGS |  |
| :--- | :--- |
| Biscuit  |  |
| rhonge of portion sizes coated* |  |
| digestive (plain)* | $1 / 2-1$ biscuit |
| fruit (e.g. garibaldi)* | $1-2$ biscuits |
| plain (e.g. rich tea / <br> ginger nut)* | $1-2$ biscuits |
| sandwich (e.g. <br> bourbon / custard <br> cream)* | $1 / 2-1$ biscuit |
| Cake | $2-4$ tablespoons |
| cake-style pudding <br> with fruit (e.g. apple <br> sponge cake)* |  |
| cake-style pudding <br> without fruit (e.g. <br> sticky toffee pudding)* | $2-4$ tablespoons |
| cup cake* | $1 / 2-1$ (25g) cup cake |
| fruit cake* | $1 / 2-1$ slice |
| madeira / swiss roll / <br> sponge* | $1 / 4-1 / 2$ slice |
| Cereal bar* | $1 / 2-1$ small pancake |
| Chocolate mousse* | $1-3$ tablespoons |
| Croissant (plain) | $1 / 2-1$ (45g) pastry |
| Danish pastry / <br> chocolate croissant* | $1 / 4-1 / 2$ medium pastry |
| Fruit crumble (e.g. apple <br> or rhubarb crumble)* | $2-4$ tablespoons |
| Fruit pie or tart (e.g. <br> apple pie / apricot tart)* | $1 / 2-1$ small slice |
| Fruit sorbet / smoothie* | $2-3$ tablespoons |
| Ice cream* | $2-3$ heaped |
| tablespoons |  |



2 heaped tablespoons of ice cream with fruit.

## Fats and oils

Include 2 servings per day to enhance flavour of meals and provide essential fats.

| FATS AND OILS | Range of portion sizes |
| :--- | :--- |
| Butter / margarine | thinly spread - <br> 1 teaspoon |
| Double cream | 1 tablespoon |
| Mayonnaise / salad cream <br> / oil \& vinegar dressing | $1-2$ teaspoons |
| Oil for frying - <br> rapeseed oil is best | 1 teaspoon |

## Sauces and sweet and savoury spreads

Include 1 serving per day to add flavour and enjoyment to a meal.

| SAUCES AND SWEET <br> AND SAVOURY <br> SPREADS | Range of portion sizes |
| :--- | :--- |
| Chocolate spread* | thinly spread - <br> 1 teaspoon |
| Gravy | $1-2$ tablespoons |
| Honey / jam / <br> marmalade / syrup* | thinly spread - <br> 1 teaspoon |
| Tomato ketchup / <br> brown or BBQ sauce | $1-2$ teaspoons |

Foods marked with an asterisk (*) should be limited to mealtimes and no more than one snack per day because of their sugar content. See Factsheet 4.5

High energy foods that can be offered occasionally in limited amounts

Limit these foods to occasional meals - no more than one item once a week. Do not use as a reward, treat or to comfort a child.

| CONFECTIONERY | Range of portion sizes |
| :--- | :--- |
| Bar of chocolate / <br> chocolate-coated <br> biscuit bar* | $2-4$ squares or a <br> funsize chocolate bar |
| Chocolate buttons* | $6-8$ small buttons |
| Ice lolly* | $1 / 4-1 / 2$ small ice lolly |
| Popcorn - sweet* | $1 / 2-1$ small cup |
| Soft sweets (e.g. jelly tots <br> / jelly beans)* | $2-4$ sweets |


| SWEET DRINKS | Range of portion sizes |
| :--- | :--- |
| Diluted squashes* | $100-120 \mathrm{ml} / 3-4 \mathrm{oz}$ |
| Fruit juices* | $100-120 \mathrm{ml} / 3-4 \mathrm{oz}$ |

For more information on sugary foods, See Factsheet 4.5


5 crisps.


3 jelly beans.


3 squares of chocolate.


1 small cup of popcorn.

## PORTIONS WITH FOODS FROM MORE THAN ONE FOOD GROUP

The food groups included in each portion are shown in the third column of each table.

| CASSEROLES, CURRIES, | Range of <br> portion sizes | Food <br> groups |
| :--- | :--- | :--- |
| STEW OR STIR FRY |  |  |
| Meat / chicken / fish / <br> pulses with vegetable <br> based sauce and <br> potatoes | $3-6$ <br> tablespoons | 1,2 <br> and 4 |
| Meat / chicken / fish / <br> pulses with vegetable <br> based sauce without <br> potatoes | $2-5$ <br> tablespoons | 2 and 4 |


| FISH PRODUCTS | Range of <br> portion sizes | Food <br> groups |
| :--- | :--- | :--- |
| Fish battered or in <br> breadcrumbs | $1-3$ heaped <br> tablespoons | 4 and 5 |
| Fish cakes | $1 / 2-1(90 \mathrm{~g})$ <br> fish cake | 1 and 4 |
| Fish fingers | $1-2$ fish <br> fingers | 4 and 5 |
| Fish and potato pie | $2-6$ <br> tablespoons | 1 and 4 |


| PASTA DISHES | Range of <br> portion sizes | Food <br> groups |
| :--- | :--- | :--- |
| Lasagne (meat) | $2-5$ <br> tablespoons | 1 and 4 |
| Lasagne (vegetable) | $2-5$ <br> tablespoons | 1 and 2 |
| Macaroni cheese | $2-5$ <br> tablespoons | 1 and 3 |
| Ravioli (meat) | $2-5$ large <br> pieces | 1 and 4 |
| Ravioli (vegetable) | $2-5$ large <br> pieces | 1 and 2 |
| Spaghetti bolognese | $3-5$ <br> tablespoons | 1 and 4 |


| PIZZAS | Range of <br> portion sizes | Food <br> groups |
| :--- | :--- | :--- |
| Pizza (meat / <br> vegetable / cheese <br> toppings) | $1-2$ small slices / <br> $1 / 4-1$ 'mini' (70g) <br> pizza | 1,3 <br> and 4 |
| Pizza (vegetarian <br> toppings) | $1-2$ small slices / <br> $1 / 4-1$ 'mini' (70g) <br> pizza | 1 and 3 |



3 tablespoons of macaroni cheese.

| PIES AND PASTRY | Range of <br> portion sizes | Food <br> groups |
| :--- | :--- | :--- |
| Shepherds pie / <br> cottage pie | $2-5$ tablespoons | 1 and 4 |
| Meat pie in pastry | $2-4$ tablespoons | 1,4 <br> and 5 |
| Meat pasty | $1 / 4-1 / 3$ pasty | 1,4 <br> and 5 |
| Mini sausage rolls | $1-3$ mini sausage <br> rolls | 1,4 <br> and 5 |
| Toad in the Hole | $1 / 2-1$ small | 1,4 <br> and 5 |
| Quiche | $1 / 2-11 / 2$ small <br> slices (30-90g) | $1,3,4$ <br> and $\mathbf{5}$ |
| Samosas (meat) | $1 / 2-1$ samosa or 1 <br> -2 small samosas | 1,4 <br> and 5 |
| Samosas |  |  |
| (vegetable) | $1 / 2-1$ samosa or 1 <br> -2 small samosas | 1,2 <br> and 5 |
| Yorkshire pudding | $1 / 2-1$ individual <br> Yorkshire pudding | 1 and 3 |


| SoUPS | Range of <br> portion sizes | Food <br> groups |
| :--- | :--- | :--- |
| Homemade <br> vegetable soup <br> with meat / fish / <br> lentils / beans | 1 small bowl <br> $(90-125 \mathrm{ml})$ | 2 and 4 |
| Homemade <br> minestrone soup | 1 small bowl <br> $(90-125 \mathrm{ml})$ | 1 and 4 |

## DRINKS

Offer toddlers a drink with each meal and snack. $3-40 z$ or $100-120 \mathrm{ml}$ is about right. Water is the best choice. If used, fruit juices and sugar sweetened squashes should be well diluted with water and limited to once a week (page 9). Undiluted fruit juices and smoothies are very high sugar foods and could be included as a sweet pudding at a meal and limited as on page 8.

## STANDARD MEASURES

The diameters of the plates and bowls photographed for this Factsheet are as follows:

- White plate: $9^{\prime \prime} / 23 \mathrm{~cm}$ (approx)
- White bowl: $61 / 2^{\prime \prime} / 16.5 \mathrm{~cm}$ (approx)
- Glass bowl: $43 / 4^{\prime \prime} / 12 \mathrm{~cm}$ (approx)

Household spoons vary in size: tablespoons are about 15 ml and teaspoons are about 5 ml , but can be less. In calculating portions sizes for this Factsheet, measuring spoons were used.


A set of measuring spoons, including a tablespoon ( 15 ml ) and a teaspoon ( 5 ml ).


A tablespoon (15ml).

QUICK NUTRITIOUS PUDDINGS OR ONLY ONE SNACK PER DAY


Half plain digestive and strawberries.


Crispbread, cheddar cheese cubes and 3 slices of apple.


Madeira cake and raspberries.

## References

1. More J.A. \& Emmett P.M. Evidenced-based, practical food portion sizes for preschool children and how they fit into a well balanced, nutritionally adequate diet. J Hum Nutr Diet. 2014; doi: 10.1111/jhn. 12228
2. Wrieden WL, Longbottom PJ, Adamson AJ, Ogston SA, Payne A, Haleem MA, Barton KL. Estimation of typical food portion sizes for children of different ages in Great Britain. British Journal of Nutrition. 2008; 99: 1344-1353
3. Cowin I, Emmett P. Diet in a group of 18-month-old children in South West England, and comparison with the results of a national survey. Journal of Human Nutrition and Dietetics. 2007; 20: 254-267
4. Emmett P, Rogers I, Symes C, ALSPAC Study Team. Food and nutrient intakes of a population sample of 3-year-old children in the South West of England in 1996. Public Health Nutrition. 2002; 5:55-64
5. Fox MK, Reidy K, Karwe V, Ziegler P. Average Portions of Foods Commonly Eaten by Infants and Toddlers. The United States Journal of the American Dietetic Association. 2006; 106: Suppl1: S66-S76
6. Webb K, Rutishauser I, Knezevic N. Foods, nutrients and portions consumed by a sample of Australian children aged 16-24 months. Nutrition \& Dietetics. 2008; 65: 56-65
7. Scientific Advisory Committee on Nutrition (2011) Dietary Reference Values for Energy. London: TSO
8. Department of Health (1991) Report on Health and Social Subjects No 41. Dietary Reference Values for Food Energy and Nutrients for the United Kingdom. London: The Stationery Office
9. National Institute for Health and Clinical Excellence. NICE public health guidance 11. Improving the nutrition of pregnant and breastfeeding mothers and children in low-income households. London: NICE, 2008

The portion sizes listed in these tables are designed as a handy guide for healthcare professionals to advise parents and carers of young children. They will not be appropriate for young children with certain medical conditions or faltering growth, who will require the omission and/or addition of specific foods. This Factsheet should be used alongside others on healthy eating for young children. See Factsheet 1.1-1.9

## PORTION SIZE RANGES FOR 1-4 YEARS



Chips

Cucumber

Onion bhaji



The healthiest start in life
from pregnancy to preschool

