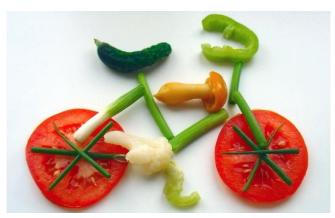
Science

To understand the impact of diet and exercise on human health.



Your task is to plan a meal and an exercise regime that will contribute to a healthy lifestyle.

For your meal, you must consider the different food groups that are needed for a balanced diet. You can plan one course, or if you fancy a challenge, a full menu for a day including breakfast, lunch, dinner and any additional healthy snacks. Use the information on the following pages to make sure you understand which foods fall under which food groups.

You can use the plate template given if you wish or else present it in your own way.

When planning your exercise, you have two choices. You can choose out of the following:

- Plan an hour of exercise of different activities that combine both aerobic exercises and exercises to strengthen your muscles and bones. Make sure you think about a warm up and cool down activity (just like we would do in your lessons at school)
- Plan your exercise over the week, making sure you include both aerobic exercises and exercises to strengthen your muscles and bones. Maybe you could go for a leisurely walk one day, but then really get your heart rate going on another day!

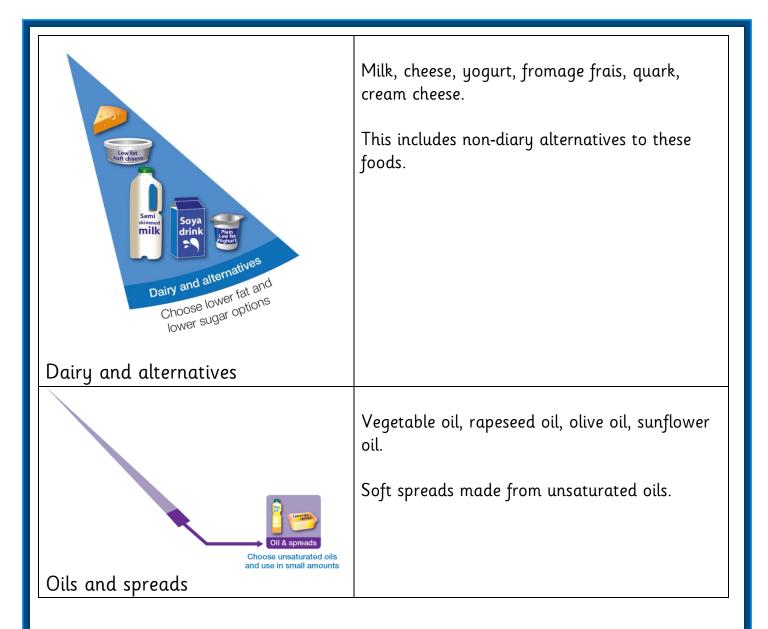
Use the pages below to help you, or conduct your own research into possible different exercises. You can decide how to present your exercise regime – you could write down your plan, draw and label pictures of the activities or even record your very own Joe Wicks style video!

Although the task this week is to plan your meal and exercise, you may be able to try them out with your family! Why not get someone in your family to join in with your new exercise regime and explain to them the benefits of it?

TRAIN LIKE AN ATHLETE, EAT LIKE A NUTRITIONIST, SLEEP LIKE A BABY, WIN LIKE A CHAMPION.



Food group	Foods included in this group
Stand of the and menandes every day	Apple, Baked beans, Banana, Broccoli, Cabbage, Carrots, Cauliflower, Cucumber, Fruit juice, Fruit smoothie, Kiwi, Lettuce, Melon, Oranges, Pears, Peas, Pineapple, Plums, Raisins, Strawberries, Sweetcorn Fresh, frozen, dried, canned and juiced all count.
Fruit and vegetables	
Choose wholes are a first the target of target	Bread: soda bread, rye bread, pitta, flour tortilla, baguettes, chapatti, bagels Rice, potatoes, breakfast cereal, oats, pasta, noodles, maize, cornmeal, couscous, bulgar, polenta, millet, spelt, wheat, pearl barley, yams, plantains.
Potatoes, bread, rice, pasta and other starchy carbohydrates	
Plain Chick Beans, Pulses, fish, eggs, meat and other proteins red more beans and pulses, 2 portions of sustainably rocessed meat	Meat, poultry and game including: lamb, beef, pork, chicken, bacon, sausages, burgers White fish (fresh frozen or canned) including: haddock, plaice, pollock, coley, cod, canned tuna Oily fish (fresh frozen or canned) including: prawns, mussels, crab, squid oysters Nuts, eggs, beans and other pulses including: lentils, chickpeas, baked beans, kidney beans, butter beans
Beans, pulses, fish, eggs, meat and other proteins	Vegetarian meat alternatives e.g. tofu, micoprotein



A Balanced Diet

The human body needs food for energy, to keep warm and for growth and repair.

Food = fuel – it gives you energy to move and think. It keeps your body parts working and helps you to grow and get stronger.

Proteins – help our bodies to grow and repair themselves.

Carbohydrates - give us energy.

Vitamins and minerals – good for skin, bones, teeth and blood.

Fats – provide energy and help build our bodies.



Physical activity guidelines for children and young people www.nhs.uk/live-well/exercise

How much physical activity should children and young people aged 5 to 18 do to keep healthy?

Children and young people need to do 2 types of physical activity each week:

- aerobic exercise
- exercises to strengthen their muscles and bones

Children and young people aged 5 to 18 should:

- aim for an average of at least 60 minutes of moderate intensity physical activity a day across the week
- take part in a variety of types and intensities of physical activity across the week to develop movement skills, muscles and bones
- reduce the time spent sitting or lying down and break up long periods of not moving with some activity. Aim to spread activity throughout the day. All activities should make you breathe faster and feel warmer

What counts as moderate activity?

Moderate intensity activities will raise your heart rate, and make you breathe faster and feel warmer.

One way to tell if you're working at a moderate intensity level is if you can still talk, but not sing.

Examples of moderate intensity activities which count as aerobic exercise:

- walking
- riding a scooter
- skateboarding
- rollerblading
- walking the dog
- cycling on level ground or ground with few hills

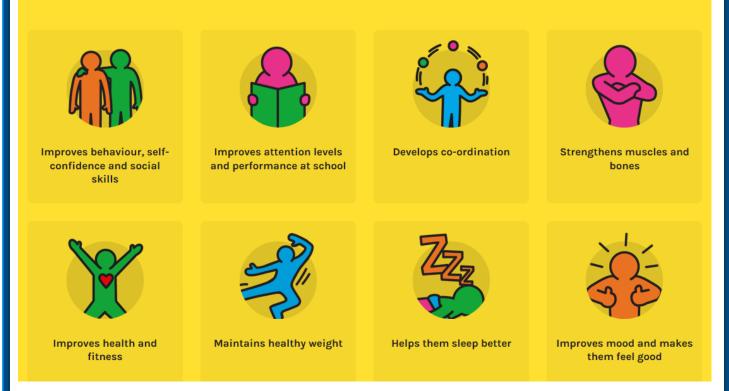
What activities strengthen muscles and bones?

Examples for children include:

- walking
- running
- games such as tug of war
- skipping with a rope
- gymnastics
- sit-ups, press-ups and other similar exercises
- basketball
- dance
- football
- rugby
- tennis
- martial arts

Lots of good reasons to get moving!

Research shows that physical activity can help school aged kids in lots of ways.



Look at the table below to see how many calories you would burn with just 20 minutes of that exercise:

Activity	Number of Calories you would burn
Leisurely Walk	59
Dancing	105
Aerobics	140
Skipping	100
Climbing Stairs	151