NAME:	DATE:
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SCIENCE

Food and Digestion

It is not necessary to carry out all the activities contained in this unit. Please see *Teachers' Notes* for explanations, additional activities, and tips and suggestions.

Theme	Food and Digestion	<u> </u>
	•	T
All students:	Keywords	3
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Additional activities for Language		
Support:		
Levels for Language Support	A1 – B1 The language level of each activity is indicated in an information box.	
Learning focus	Using Science textbooks and accessing curriculum content and learning activities.	
Acknowledgement	The English Language Support Programme acknowledges the permission of Gill and Macmillan to reproduce excerpts from Science Revision for Junior Cert. by Shea Mullally	

Note: The categorisation of activities is indicative only and should not prevent teachers from using any activities that are considered suitable for a particular group of students.

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Making the best use of these units

Learning Record

A copy of the Learning Record should be distributed to each learning support and language support student.

Students should:

- 1. Write the subject and topic on the record.
- 2. Tick off/date the different statements as they complete activities.
- 3. Keep the record in their files along with the work produced for this unit.
- 4. Use this material to support mainstream subject learning.

Introduction of a topic or activity should ensure that students understand **what** they are doing and **why**. Many students will have some difficulty in understanding both the language in the activity and the instructions/purpose for carrying out the activity.

You can create your **personal teaching resource** by printing these units in full and filing them by subject in a large ring binder.

Encourage students to:

- Bring the relevant subject textbooks to learning/language support class. It does not matter if they have different textbooks as the activities in these units refer to vocabulary and other items that will be found in all subject textbooks. These units are based on curriculum materials.
- Take some responsibility for their own learning programmes by:

Developing a **personal dictionary** for different subjects, topics, and other categories of language, on an on-going basis. This prompt is a reminder.



Recording what they have learnt on the *Learning Record*, which should be distributed at the start of each unit.



Keeping their own **files** with good examples of the work produced for different subjects and topics. This file will be an invaluable **learning resource** in supporting mainstream learning.



Indicates that answers may be found at the end of the unit.

Don't forget that many of the activities in these units are also suitable as **homework** tasks or for **self-study**.

Keywords

The list of keywords for this unit is as follows:

Nouns

kilojoules (kj) absorption ingestion amino acids liquids amount material anus apparatus method assimilation milk balance minerals bloodstream nutrient body nutrition calories organs carbohydrates paper pieces cells colour presence

constituents process/processes content protein

diet record digestion sample egestion solution energy spoon enzymes starch fats substance fatty acids sulfate food tissue gas tube glucose types

gas tube
glucose types
glycerol vitamin
growth water
kilocalorie (kcal) worker

Verbs

to break down to eat

to eat
to feed
to involve
to need
to provide
to repair
to test
to use

Adjectives

designated digested digestive excreted following healthy soluble undigested various

Adverbs chemically physically

NAME:	_ DATE:

Vocabulary file 1

Word	Meaning	Note or example*
absorption		
amino acids		
assimilation		
calories		
carbohydrates		
constituents		
diet		

^{*}You may wish to write a sentence or phrase, make a note of the page in your textbook where this word appears or, if English is not your first language, provide a translation into your language.

Get your teacher to check this, then file it in your folder so you can use it in the future.

NAME:	 DATE:

Vocabulary file 2

Word	Meaning	Note or example
digestion		
egestion		
fatty acids		
ingestion		
nutrition		
process		
protein		

Get your teacher to check this, then file it in your folder so you can use it in the future.

NAME:	DATE:	

Vocabulary file 3

Word	Meaning	Note or example
77014	Meaning	1401e or example
to break		
down		
to repair		
starch		
substance		
Substance		
designated		
digestive		
anluhla		
soluble		

Get your teacher to check this, then file it in your folder so you can use it in the future.

Language Level: all

Type of activity: whole class Suggested time: 10 minutes

Activating students' existing knowledge

Use a spidergram to activate students' ideas and knowledge on the key points in this chapter. See **Teachers' Notes** for suggestions.

Possible key term for the spidergram:

Food

Energy

- Invite newcomer students to provide key words in their own languages.
- Encourage dictionary use.
- Encourage all students to organise their vocabulary into relevant categories
 (e.g. meaning, nouns, keywords, verbs etc.).



All students should record vocabulary and terms from the spidergram in their personal dictionaries.

Language Level: A1

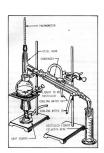
Type of activity: pairs or individual

Suggested time: 30 minutes



Working with words

1. Tick the correct answer



- a) flower
- b) fruit
- c) car
- d) apparatus



- a) lesson
- b) piano
- c) food
- d) bones

2. Find these words in your textbook.

Write your own explanation for these words. Then write a note or example to help you remember the word. Use your dictionary if necessary.

Word	Page in textbook	Explanation	Note or example
balance			
bloodstream			
glucose			
ingestion			



Check that these key words are in your personal dictionary.

Language Level: A1

Type of activity: pairs or individual

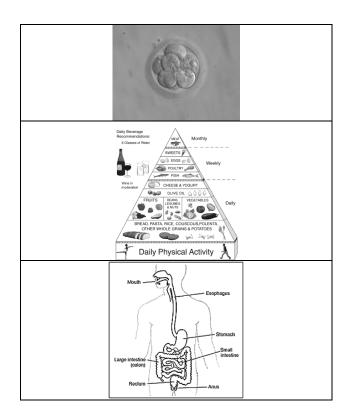
Suggested time: 30 minutes



Picture Sentences

1. Tick the correct answer

- a) This is a tree.
- b) These are cells.
- c) This is a copy book.
- a) This is a camera.
- b) This is a desk.
- c) This is a diet.
- a) This is the digestive system.
- b) These are clouds.
- c) This is photosynthesis.



2. Put these words in the correct order to form sentences.

need all living things food	
balanced should we diet a eat	
provide foods fatty energy a of lot	

NAME:	DATE:
-------	-------

Language Level: A1 / A2

Type of activity: pairs or individual Suggested time: 20 minutes



Odd One Out

1. Circle the word which does not fit with the other words in each line.

Example:	chair desk	book	train
telephone	call	ring	vitamin
window	door	energy	room
protein	garden	grass	tree
green	red	blue	water

2. Find these words in your textbook. Then put them in short sentences in your own words. Use a dictionary if necessary.

to break down	
to provide	
·	
to repair	
·	
to test	
to need	



Check that these key words are in your personal dictionary.

Language Level: A2 / B1
Type of activity: individual
Suggested time: 20 minutes



Science Keywords

1. Fill in the missing letters of the keywords listed below.

On the line beside each word, write whether the word is a noun, an adjective or a verb.

en_rg_ ____

he_lth_

pr_te_n _____

nu_rie_ts ____

2. Write as many words as possible related to **food and digestion**. You have 3 minutes!

Check that these keywords are in your personal dictionary.



NAME: _____ DATE: _____

SCIENCE: Food and Digestion

Language Level: A1 / A2

Type of activity: pairs or individual Suggested time: 20 minutes



Unscramble the letters

	. 11. 12		
1.	All living things need	FODO	Look at each
	Answer		word as you write the answer.
2.	Food gives us this	EREYGN	
	Answer		Is your spelling
			correct?
3.	Five of these can be found in food	NUTIRTENS	Can you
	Answer		<u>pronounce</u> the word?
4.	70% of the human body consists of	WTAER	Do you know what the word
	Answer		means?
			Have you got this word in your <u>personal</u> dictionary?



Solve the secret code

English=	G	C	D	Ε	L	I	Ν	M	0	5	T	C
Code=	В	X	У	F	G	Q	R	0	L	Ε	A	W

example: (code) EAWYFRA = STUDENT (English)

BGWXLEF =

NAME:	DATE:	

Language Level: A2 / B1

Type of activity: pairs or individual Suggested time: 30 minutes



Completing text

1. Fill in	the blanks in these sentences. Use words from the Word Box
below.	
Nutrition:	feeding in humans and most other animals involves the following
processes.	

Ingestion: food	is taken into the mouth.						
Digestion: is broken up into soluble substances by the and by digestive organs.							
Absorption: so	uble substances are absorbed into the						
Assimilation: the soluble products of are reorganised and used for growth of new cells, for and for the repair of organs and tissue.							
Egestion: undigested material is got rid of (excreted) through the anus.							
Word Box							
	energy food bloodstream digestion teeth						

2. Teeth play an important role in digestion. You will be learning about different types of teeth in your science textbook. But perhaps you know something already! With a partner, try to match the types of teeth, to the descriptions.

	_			_	
incisors		canines	premolars		molars

- Pointed teeth which tear the food.
- Large flat teeth at the back.
- Sharp teeth at the front of the mouth.
- Flat teeth used to grind the food.

NAME: DATE:

Language Level: A2 / B1
Type of activity: individual
Suggested time: 30 minutes



Multiple choice

Read the text below and choose the best answers.

Food has to be broken up into smaller pieces before the body can use it.

Food is broken up physically by the teeth. An adult has 32 teeth to do this. – 16 in the upper jaw and 16 in the lower jaw. The second stage of digestion involves the use of chemicals called enzymes. The digestive enzymes are made in the mouth, stomach, pancreas and small intestine. Each enzyme is different and each will break down only one of the food types. Proteins, carbohydrates and fats are all worked on by digestive systems. They are broken down into their simplest, soluble parts, which can then enter the blood. Carbohydrates are broken up into glucose, proteins are broken up into amino acids and fats are broken up into fatty acids and glycerol

1).	What	does	food	have	to	be	broken	uр	into?
-----	------	------	------	------	----	----	--------	----	-------

a) nothing

b) smaller pieces

c) the body

- d) teeth
- 2). What breaks the food physically?
 - a) teeth

b) jaws

c) the body

- d) machines
- 3). What breaks up the food chemically?
 - a) high energy foods
- b) walking

c) talking

- d) enzymes
- 4). Are carbohydrates broken up into glucose?
 - a) Yes

- b) No
- 5). Are proteins broken up into glycerol?
 - a) Yes

b) No

Language Level: B1
Type of activity: individual

Suggested time: 40 minutes

Planning and writing text

Use this chart to plan a short text on the topic 'We are what we eat'.

Introduction

The importance of food in our lives, food and family, food and culture.

Important words for this topic.

First paragraph

The scientific process - how we digest food, the importance of food to our health.

Second paragraph
Food fashions, food and the modern world
versus food in the past.

Concluding points

How to improve our health, and the health
of the world by changing our food habits,
because we are what we eat.



NAME: DATE:	_
SCIENCE: Food and Digestion	
Use your plan and your textbook to write about: 'We are what we eat'	
`.	
	

When your teacher has checked this, file it in your folder so you can use it in the future.

Language Level: A2/B1

Type of activity: individual and pairs

Suggested time: 30 minutes



Grammar Points

1. The passive form of the verb is used a lot in science. This is because the **process** is important, not the person/thing who carries out the process.

Examples:

Water is used to dissolve substances.

Energy content is measured in KJ (kilojoules).

Starch is tested for by adding iodine solution.

We form the passive with be + -ed form (past participle)

2. <u>Underline</u> the passive forms of the verbs in the following sentences:

Starch is broken down in the mouth.

Maltose is made of two glucose modules linking together.

Food is chewed in the mouth.

Food is carried from the mouth to the stomach in a tube.

3. Rewrite and improve the following sentences by taking out they or somebody and using the passive form. The first one is done for you.

Somebody wants you in the office.

You are wanted in the office.

- They announced a delay.
- They make these cars in Germany.
- They empty the bins.
- Someone stole my mobile phone.
- 4. Open your science textbook on any page. Look for examples of verbs in the passive form. Write out five sentences, leaving blanks. Give them to another student to fill in.

Example: Oxygen _____ by the red blood cells combined with haemoglobin. (to carry)

NAME:	DATE:	
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Alphaboxes

Using your textbook, find <u>one</u> word beginning with each of the letters of the alphabet. Write the word in the relevant box. You could also write the word in your own language.

a	Ь	С
d	е	f
9	h	İ
j	k	1
m	n	0
d	q	r
S	t	u
V	w	хуz

Do you understand all these words?



Get your teacher to check this, then file it in your folder so you can use it in the future.



Word search

Find the words in the box below.

AMOUNTS	FATS	STARCH
APPARATUS	FOOD	SUBSTANCES
BALANCED	FOODS	TEST
CHEMICALS	GLUCOSE	
DIET	PROTEIN	
ENERGY	SOLUTION	

NAME:	DATE:
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Play Snap

Make Snap cards with 2 sets of the same keywords. See *Notes for teachers* for ideas about how to use the cards.

*	
energy	energy
glucose	glucose
starch	starch

NAME: SCIENCE: Food and Digestion	DATE:
chemicals	chemicals
healthy	healthy

diet

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diet

NAME:	DATE:
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	,
solution	solution
minerals	minerals
substance	substance

Answer key

Working with words, page 8

d.c

Picture Sentences, page 9

b.c.a

All living things need food.

We should eat a balanced diet.

Fatty foods provide a lot of energy.

Odd one out, page 10

Vitamin, energy, protein, water

Key words, page 11

Energy (noun), healthy (adjective), protein (noun), nutrients (noun)

Unscramble the letters, page 12

Food, energy, nutrients, water

Secret code: glucose

Completing text Page 13

1. Nutrition: feeding in humans and most other animals involves the following processes. Ingestion: food is taken into the mouth.

Digestion: \mathbf{food} is broken up into soluble substances by the \mathbf{teeth} and by digestive

organs.

Absorption: soluble substances are absorbed into the **bloodstream**.

Assimilation: the soluble products of **digestion** are reorganised and used for growth of new cells, for **energy** and for the repair of organs and tissue.

Egestion: undigested material is got rid of (excreted) through the anus.

2. Canines - pointed teeth which tear the food. Molars - large flat teeth at the back. Incisors - sharp teeth at the front of the mouth. Premolars - flat teeth used to grind the food.

Multiple Choice, page 14

1b,2a,3d,4a,5b

Grammar points, page 17

2. Starch is broken down in the mouth.

Maltose is made of two glucose modules linking together.

Food is chewed in the mouth.

Food is carried from the mouth to the stomach in a tube.

3. A delay was announced.

These cars are made in Germany.

The bins are emptied.

My mobile phone was stolen.

4. is carried

Word Search, page 19.

SFCRP BATASTED ZMJNK HYXBIHIUE SEL FOODSZX AWW SWZEAUW VHTESTA TAPPARATUSPCXTL JFATS FOOD VKTL STARCHR AEEBYC CBCAMOUNT SUBSTANCES FY A VHGL UCOSE KXRCHEMICALSR ZUXZ**PROTEIN**LGYPN JBOVOR V V F M T **D I E T S O L U T I O N** V F V Z K JKBALANC EDKQBENERGYK YVYU QLQQ XS DM