SCIENCE

Human Reproduction

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	Human Reproduction		
All students:	Keywords	3	
	Vocabulary File	4-6	
Activities that are suitable for Learning Support, Language	Activating Students' Existing Knowledge	7	
Support and the Mainstream	Completing Sentences	13	
Subject Class include:	Multiple Choice	14	
	Wordsearch	19	
Learning support and	Working with words	8	
Language support:	Picture Sentences	9	
Activities suitable for students receiving Learning or Language	Odd One Out	10	
Support include:	Science Keywords	11	
	Unscramble the letters	12	
	Alphaboxes	18	
	Play Snap	20-22	
Language support:	Vocabulary	15-16	
Additional activities for Language Support:	Grammar	17	
Levels for Language Support	A1 – B1 The language level of ear indicated in an information box.	ach activity is	
Learning focus	Using Science textbooks and accessing curriculum content and learning activities. The English Language Support Programme acknowledges the permission of Gill and Macmillan to reproduce excerpts from Science Revision for Junior Cert. by Shea Mullally		
Acknowledgement			

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.

NAME:			DATE:
		4.5	

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

baby offspring to fuse ovary/ovaries birth to insert blood ovulation to involve bloodstream ovum to lodge body penis to prevent to produce cervix period contraception placenta to release cord pregnancy to shed

cord pregnancy
cycle production
egg cells puberty
eggs reproduction
embryo seminal fluid

fallopian tubes sex

female sexual intercourse fertilisation sexual reproduction

fluid sperm fusion sperm cell gamete system hormones testes insemination tube

intercourse umbilical cord

labour uterus lining vagina link weeks male woman man womb

menstrual cycle menstruation

nucleus/nuclei

menstruation Verbs
method to cushion
mixture to develop
mother to divide

to fill

fallopian
fal intercourse
female
fertile
fertilised
fertilised
identical
m male
s menstrual
new
lical cord pregnant
s present
reproductive

sexual similar thickened umbilical

Adjectives

amniotic

average

Adverbs sexually

NAME:	DATE:	
COLENIOE III B I (i		

Vocabulary file 1

Word	Meaning	Note or example*
birth		
cervix		
contraception		
cycle		
egg cells		
fallopian tubes		
fertilisation		

^{*}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
gamete		
insemination		
intercourse		
menstrual cycle		
nucleus		
ovulation		
placenta		

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
to develop		
to divide		
puberty		
sexual intercourse		
to fuse		
to insert		
to produce		

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:

human reproduction

- 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

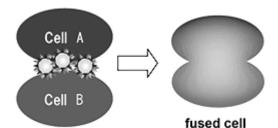


Working with words

1. Tick the correct answer



- a) rabbit
- b) birth
- c) bin
- d) apple



- a) cell fusion
- b) food
- c) notice board
- d) chalk

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
embryo			
fertilisation			
pregnancy			
puberty			



Check that these key words are in your personal dictionary.

Language Level: A1

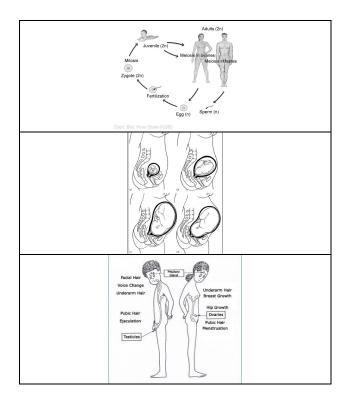
Type of activity: pairs or individual Suggested time: 30 minutes



Picture Sentences

1. Tick the correct answer

- a) This is a tree.
- b) This is a food web.
- c) This is the human life cycle.
- a) This is pregnancy.
- b) These are posters.
- c) This is a blackboard.
- a) This is a painting brush.
- b) This is rain.
- c) This is puberty.



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

fertilised the divides egg	
pregnancy human 40 is weeks the average	
between 15 ages of 10 puberty is the and	

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.

Ex	xample: chair	desk bo	ook (train)	
	egg	sperm	uterus	photo
	womb	placenta	face	lining
	house	birth	pregnant	gamete
	puberty	boy	girl	wood
2	Find these words in	vour textbook	Then nut them in	short centences in v

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

to develop _	 	
•		
to divide 🔃	 	
to fuse	 	
to prduce	 	
to release _	 	

Check that these key words are in your personal dictionary.

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



Hidden 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.

o_ar_ ____

pe_i_d _____

p_ber_y _____

w_m_

2. Write as many words as possible related to **human reproduction**. You have 3 minutes!

Check that these keywords are in your personal dictionary.



NAME: _____ DATE: _____

SCIENCE: Human Reproduction

Language Level: A1 / A2

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



Unscramble the letters

1.	This happens to women every 28 days	MNESTRAUIONT	Look at each word as you
	Answer		write the answer.
2.	This happens to boys and girls around 1	.0-15 years	
	, ,	PBUERYT	Is your spelling
	Answer	 	correct?
3.	The sperm cell is made in the Answer	TETSES	Can you pronounce the word?
4.	The egg is made in the	ROAVY	Do you know what the word means?
	Answer		Have you got this word in your <u>personal</u> dictionary?



Solve the secret code

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

example: (code) EAWYFRA = STUDENT (English)

GWEQLR =

NAME:	DATE	

Language Level: A2 / B1

Type of activity: pairs or individual

Suggested time: 40 minutes



Completing text

1. Fill in the b below.	lanks in these sentences. U	se words from tl	ne Word Box
Sexual reprodu	ction is the production of	by a male	e and female.
The male produin the testes.	uces a male sex cell (gamete)	called sperm	is produced
The	produces a female sex cell (_) called a	n egg (ovum).
Eggs are produ	ced in the ovaries. The produ	ction of eggs is co	alled
Word Box			
Word Dox	offspring	gamete	female
	sperm	ovulation	

2. Read the text and select the word which you think belongs in the text. Discuss your answers with a partner, before checking with your teacher.

Pregnancy. The average length of human pregnancy is 40/14 weeks. During this time, the embryo develops in the uterus promoted/protected inside a bag of fluid called amniotic fluid. The amniotic fluid cushions/cuddles the developing embryo.

A tube called the umbilical cord contacts/connects the embryo to the placenta. The placenta is rich in blood vessels. In the placenta food and oxygen from the mother's blood pass/past into the baby's blood. Also, wastes, such as carbon dioxide, pass from the baby's blood into/in the mother's blood.

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.

Development of the Embryo

At first, the embryo is a tiny ball of cells, about the size of a full stop. After three months of growth it will be about 10cm long and look like a tiny human being. It will have tiny arms and legs, with fingers and toes and very small, soft bones forming inside. It will appear to have a large head. As the foetus grows, the uterus expands to make room for it, and the mother's abdomen starts to swell.

Birth. The birth of a baby begins when the uterus (womb) muscles start to contract. This is called labour. The bag of amniotic fluid bursts, and further contractions push the baby out, usually head first. The umbilical cord is clamped and then cut. Shortly afterwards, the placenta (afterbirth) is also pushed out.

1	What	size	is	the	embry	o at	first?
		3.20			C111D1 7	_ ~ .	1

a) a football

b) a full stop

c) an egg

d) a sack

2. After three months, what does it look like?

a) a full stop

- b) an egg
- c) a ball of cells
- d) a tiny human being

3. What happens to the uterus during pregnancy?

a) it expands

b) it contracts

c) it breaks

d) it disappears

4. Is the baby usually born feet first?

a) Yes

b) No

5. Is the placenta also pushed out?

a) Yes

b) No

NAME: _____ DATE: _____

SCIENCE: Human Reproduction

Language Level: B1

Type of activity: individuals/ pairs / small groups

Suggested time: 40 minutes

Vocabulary

Cause and effect

1. Notice some of the phrases we use in English, to join two ideas together.

I am going to continue studying science

because it is interesting.

because of my good teacher.

in case I decide to study medicine.

in order to learn more about the physical world.

so that I can become a scientist.

if it's possible.

unless there's a clash in my timetable.

although I know I am not very good at it.

even if I have to give up another subject.

unlike my brother, who hates science.

NAME:	DATE:
COIENCE: Human Dannaduation	

Vocabulary

Cause and effect (continued)

cause and effect	(commuea)
2. Use the ten sen	tences in exercise 1 as a model to continue the next sentence
in ten different wa	ys.
I am going to cont	rinue living in (Dublin, Waterford)
because	
because of	
in case	
in order to	
so that	
if	
unless	

3. Write down the first half a sentence (with one idea) similar to the sentence halves in exercise 1 and 2. Swap your sentence halves with another student. You must each continue the sentence in ten ways. Swap the finished sentences and check one another's work.



although

even if

unlike

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

Language Level: all

Type of activity: individual Suggested time: 40 minutes



Grammar Points

Prepositions

1.	The 1	following se	ntences are	taken f	rom units	on human	reproduction	in your
SC	ience	textbooks.	Can you add	d the mi	ssing prep	ositions?		

•	The fusion	the male and	female gamete	is called	fertilisation.
---	------------	--------------	---------------	-----------	----------------

- Puberty in boys is the time _____ ten and fifteen.
- The egg is released ____ average every 28 days.
- The egg passes ____ the fallopian tube.
- Egg cells are produced ____ the ovaries.
- The fertile period extends ____ day 11 ____ day 18.

along	of	from	in	between	on	to
••9	•				•	

2. Some verbs and prepositions go together. Below are some verbs from your keywords list. Decide which prepositions should go with them.

to divide _____ (parts or groups)
to fill ____ (with water)
to insert ____
involve ____
to prevent ____
to release ____

3. Now it's your turn! Go to your textbook and write out six sentences, leaving a blank where the prepositions should be. Pass these sentences to another student for him/her to complete.

NAME:	DATE:	
COLENIAE III B I		

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.

а	Ь	С
d	е	f
9	h	i
j	k	
m	n	0
p	q	r
S	†	u
V	w	хух

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 from the list.

CELLS
CYCLE
EGG
EMBRYO
FALLOPIAN
FEMALE
FERTILISATION
FERTILISED
FLUID

REPRODUCTIVE
SPERM
UTERUS
INTERCOURSE
LINING
MALE
MENSTRUAL
OVULATION
PLACENTA

NAME:	DATE:	
CCIENCE: Human Bankaduation		

sperm	sperm
reproduction	reproduction
menstruation	menstruation

NAME:	DATE:
SCIENCE: Human Reproduction	
eggs	eggs
male	male
female	female

NAME:	DATE:
NAME: SCIENCE: Human Reproduction	
sex	sex
ovulation	ovulation
fallopian tubes	fallopian tubes

Answer key

Working with words, page 8

1. b,a

Picture Sentences, page 9

c, a, c

The fertilised egg divides.

The average human pregnancy is 40 weeks.

Puberty is between the ages of 10 and 15.

Odd one out, page 10

Photo, face, house, wood

Key words, page 11

Ovary (noun), period (noun), puberty (noun), womb (noun)

Unscramble the letters, page 12

Menstruation, puberty, testes, ovary

Secret code: fusion

Completing text, page 13

- 1. Sexual reproduction is the production of **offspring** by a male and female. The male produces a male sex cell (gamete) called sperm. **sperm** is produced in the testes. The **female** produces a female sex cell (**gamete**) called an egg (ovum). Eggs are produced in the ovaries. The production of eggs is called **ovulation**.
- 2. 40, protected, cushions, connects, pass, into

Multiple Choice, page 14

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

Grammar points, page 17

- 1. the fusion of, between ten and fifteen, on average, along the fallopian tubes, produced in the ovaries, extends from day 11 to day 18.
- 2. Note: these are the common verb + prepositions combinations, other s are possible, check with your dictionary or with your teacher if you are not sure.

to divide into parts, to fill up with water, to insert into, to involve in, to prevent from, to release from/into

Word Search, page 19

```
NJ
           JODD
         5
           PERMK
        XWEMBRY
                  0
      SAL
           ININGDH
     V V I
         AJCELLSXD
    KFUFALL
              O P
                 Ι
                  ANGX
    ERTIL
           ISATIONGPZ
  F
                ISEDYAR
 SDXQSF
         E
           RTIL
         E
           R C
              OURSE
                     TIEGG
DAWVI
      NT
EVP
         Ν
      C E
          TAMENSTRUALE
    LA
  K X J S M O
           VULAT
                  IONREK
    VMREP
           RODUC
  У
                  TIVEB
           ERUSWNYRD
    J B
      AUT
      E M A L E O S Y
                  V R
                     N
      FLUIDMAL
                  E F
           ZXDGF
         Ε
        J
                  X
           YCLER
           HF S Z
              F
            T
```