La cellula: esempio di lezione clil

- **Iniziare sempre da attività pratiche** (video, lavoro in power point)
- Scrivere alla lavagna i nuovi termini riguardanti la cellula ed inserirli in una tabella: conosco / conosco ,ma non uso / non conosco (docente-alunno)
- Leggere un testo sulla cellula e sottolineare con colori diversi parole note, non note, note ma non usate(docente-alunno)
- Spiegare a voce gli organuli cellulari relativamente alla dimensione,alla struttura, alle funzioni (docente)
- Laboratorio:differenze tra cellula animale e vegetale disegno ed inserisco i termini (docente-alunno)
- Scrivere che cosa succederebbe senza: mitocondri, membrana, nucleo, lisosomi, DNA , RNA... (Lavoro di alunni in coppia)
- Discussione di classe. Eventuale mappa concettuale. Gratificazioni.

MAPPA CONCETTUALE cellula

5 Concept maps

In this activity pupils can be provided with key words on cards and asked to link them together, in a way similar to mind maps. Pupils need to think about organisation (i.e. grouping) and how key words are connected. They place the cards on an A3 sheet, draw the connections and then write on the connections.

For example, part of an outcome might look like:

Useful internet addresses

A website with free concept map tools:
<http://emap.ihmc.us/conceptmap.html>

La struttura atomica: esempio di lezione cli

- Che cosa conosci della struttura atomica?
- Vocabolario (nucleus, proton, neutron, electron)
- Mettere in ordine, cercando connessioni tra loro, i seguenti termini:nucleo, orbitale, protoni neutroni, forza di attrazione, particelle sub-atomiche...). L'elenco è assegnato dal docente
- Controllare
- Spiegare al partner la struttura atomica usando le parole date
- Confronta col partner e produci una versione scritta
- Leggi il testo originale esplicativo
- Confronta quanto hai scritto con il testo
- Conclusione:completamento di un esercizio di riempimento

Osservazioni

- Lezione frontale ridotta al minimo
- Verifica continua del processo di apprendimento
- Diversificazione delle attività
- Valorizzazione dell'apporto del gruppo (gli studenti imparano da noi e tra loro)
- Esercizi pratici
- Continue gratificazioni agli studenti

Laboratory equipment

G.W.

Internal Organs

Student A

Ask your partner questions to complete the table below. When you have finished the table, work with your partner to label the picture with the correct words. Then check your answer by looking at the picture of the Internal Organs in the dictionary.

ORGAN	FUNCTION
heart	sends blood round your body
_____	cleans your blood
kidneys	separate waste liquid from your blood
_____	controls your thoughts, feelings and movements
lungs	_____
stomach	where food goes after you have eaten it
_____	helps your body to digest the food you eat
bladder	_____

Useful language:

What does the / do the do?

Which organ

Internal Organs

Student B

Ask your partner questions to complete the table below. When you have finished the table, work with your partner to label the picture with the correct words. Then check your answer by looking at the picture of the Internal Organs in the dictionary.

ORGAN	FUNCTION
heart	_____
liver	cleans your blood
_____	separate waste liquid from your blood
brain	controls your thoughts, feelings and movements
lungs	are used for breathing
stomach	_____
pancreas	helps your body to digest the food you eat
bladder	where waste liquid collects before leaving your body

Useful language:

What does the / do the do?

Which organ

Word search - the cell

R Z H W M X G P R C R Q N Z L
 W V J L E N H W E P P O U L W
 X K G Y M M P L Z V I Z Z L A
 P P O A B X L F K R P F K P V
 D Z C D R W H R D V O G F C K
 Z J U B A F O N E L O U C A V
 B Z F L N C O J I E X T G R A
 Y F L I E H Y S R E Y A E G L
 W X K A C X S T U U W T I Q M
 W G B O S V R C O E V V T W Z
 P D T C H L O R O P L A S T W
 S I L U X A N W Y I L C O D H
 M A N K C Y W I A L Q A U I G
 K G A N R I P W R N Q B S N J
 D E Q G N V G Z B M W S B M W

CELLWALL
 CHLOROPLAST
 CYTOPLASM
 MEMBRANE
 MITOCHONDRION
 NUCLEUS
 VACUOLE

chemical reactions 1

N Q G D B C X R Z M N E D E N
 Y E I N I U O M U O Q T I N O
 I C U D I T F I I U E Y S I T
 A N I T P D N F I S L L S L O
 S C D E R O N L E T E O O A R
 A U C I R A I O S R C H C K P
 B C O D C B L Y B O T P I L T
 A T Y E R A R I E N R M A A I
 S H L I U E T E S G O A T R T
 I N U A M Q T O F A N N I O R
 C M B A S E A A R S T R O N A
 N O I R E T T I W Z N I N O T
 H Y D R O X I D E C J A O D I
 E T A G U J N O C F Z P R N O
 B R O N S T E D E U L A V T N

ACCEPTOR	ACID	ACIDIC
ALKALINE	AMPHOLYTE	AQUEOUS
BASE	BASIC	→ BRONSTED
BUFFER	CONJUGATE	DISSOCIATION
DONOR	ELECTRON	EQUILIBRIUM
HYDRONIUM	HYDROXIDE	INDICATOR
ION	NEUTRALISATION	NONBONDING
PAIR	PROTON	SALT
STRONG	TITRATION	→ TRANSFER
VALUE	WATER	ZWITTERION

30 of 32 words were placed into the puzzle.

(Solution)

The digestive system

Orientation

What do you know about the digestive system?

Vocabulary

Check you know what the words on the cards mean and how to pronounce them.

Pronunciation

digestion /dar'dʒestʃən/

saliva /sə'laɪvə/

intestine /m'testɪn/

muscle /mʌsl/

peristalsis /perɪ'stælsɪs/

blood /blʌd/

stomach /'stʌmək/

Tasks

- 1 Put the word and phrases into what you think is the correct order.
- 2 Listen to the text and check they are in the correct order.
- 3 Practise telling your partner about the digestive system using the words and phrases.
- 4 Work with your partner to reconstruct the text and produce a written version.
- 5 Compare your written version with the original text.

Original text *Oxford Student's Dictionary* (OUP)

When you eat something your chewing and saliva turn the food into a paste. Swallowing sends it to the stomach where acids break it down. Food then passes into the small intestine where digestion continues and useful substances are absorbed into the blood. In a process called peristalsis the circular muscles in the intestine force the food along with a squeezing action. Finally, undigested food passes into the large intestine and your body rids itself of the waste.

When you eat something your chewing and saliva turn the food into a paste. Swallowing sends it to the stomach where acids break it down. Food then passes into the small intestine where digestion continues and useful substances are absorbed into the blood. In a process called peristalsis the circular muscles in the intestine force the food along with a squeezing action. Finally, undigested food passes into the large intestine and your body rids itself of the waste.

chewing and saliva	turns food into a paste
swallowing	stomach
acids break it down	small intestine
useful substances	absorbed into the blood
peristalsis	circular muscles
digestion continues	squeezing action
large intestine	rids itself of waste

Student A

Work in pairs. Ask Student B questions to find out the missing names of the angles below. Here is some useful language you can use:

What do you call an angle which is more / less than degrees?

What do you call an angle of ... degrees? It's called ... / They're called ...

FOLD -----

Student B

Work in pairs. Ask Student A questions to find out the missing names of angles below. Here is some useful language you can use:

What do you call an angle which is more / less than degrees?

What do you call an angle of ... degrees? It's called ... / They're called ...

TEMPI VERBALI CONSIGLIATI per la preparazione di una lezione CLIL

HISTORY:

- past simple
- past perfect
- past passive
- third conditional

SCIENCE:

- present simple
- present simple passive
- past simple passive
- 'will' future