# The Shape of a CLIL Sequence

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1. Why is it important for CLIL teachers to think about the sequential aspect of their teaching?

Menu

2. What do we mean by a (didactic) sequence?

- 3. Can we identify the stages of a sequence?
- 4. Can we identify the types of <u>activities</u> that predominate at these stages?
- 5. Can we identify the types of <u>language</u> that predominate at these stages?

Q: What is a classroom 'activity'?



A: Whatever it is, it never exists in isolation.

Something <u>precedes</u> an activity, and something <u>succeeds</u> it



Not necessarily linear.....

But new topics always exploit previous knowledge.....

....even with VYL (very young learners)

....in fact that is the <u>only</u> way we can teach VYL

**Everything is** sequential

## Why is it important to think about <u>sequences</u>?

Every learning 'unit' has <u>stages</u>. This might seem obvious, but in CLIL, where learners are faced with the extra challenge of the L2, it's important to know how these stages will <u>differ</u> in their demands.



- True of primary, secondary and tertiary education.

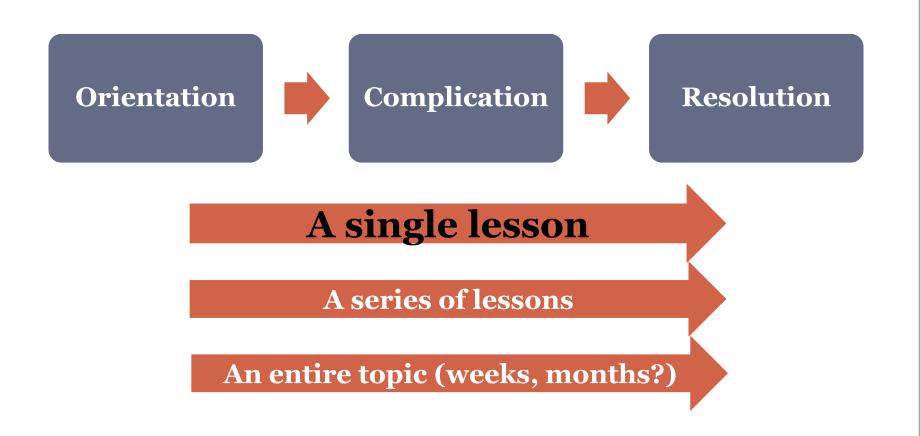
# An educational 'event'

(3 Stages/Phases)



This is clearly 'linear'

### An educational 'event'



# Sequential stages (3 main 'moves')

Orientation (Starter)



Complication (Main course)



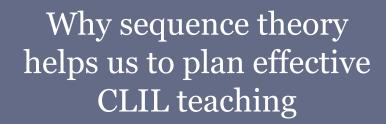
Resolution (Dessert)



Synthesis, re-cap, revision

Quiz, test, exam, group presentation

'Events' typical of resolving content: (resolution stage)



What happens in these stages/phases?

...in terms of the types of knowledge expected to be taught/learned?

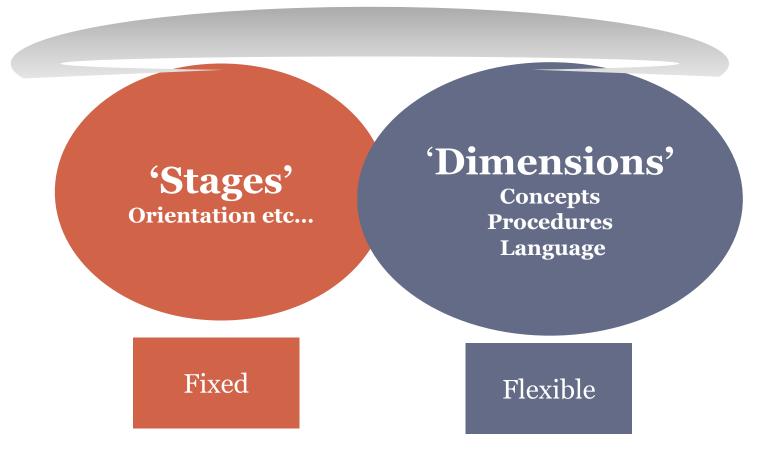
(Concepts)

...in terms of the types of <u>activities</u>?

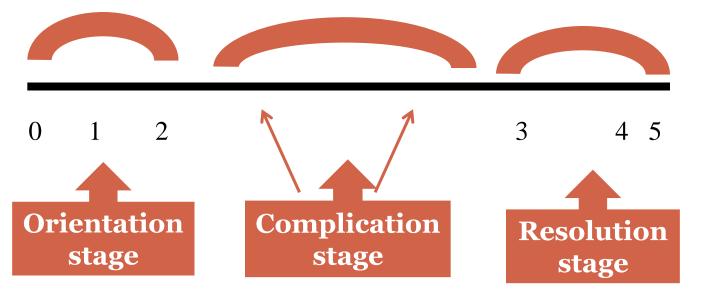
(Procedures)

...in terms of the <u>language</u> that accompanies the learning? (Language)

# Two overlapping notions

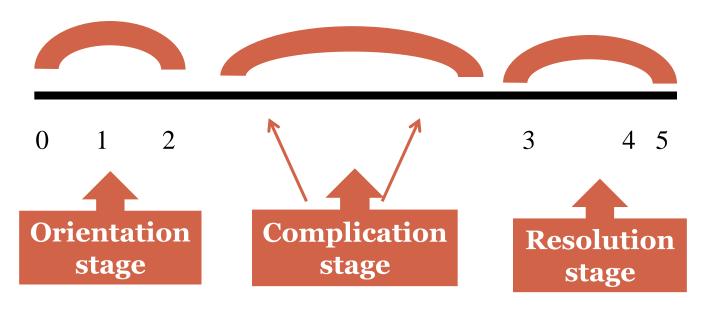


#### For example: A sequence of 3 weeks/12 hours classtime = one topic



- 0-1. Establishing pre-knowledge/warmers/stimulating interest
- 1-2. Introductory
- 2-3. Main conceptual content
- 3-4. Concluding the main conceptual content. Synthesis. Checklists.
- 4-5. Assessment activity(ies).
- 5. Feedback/self-assessment (reflection)

### But this could be a single class too!

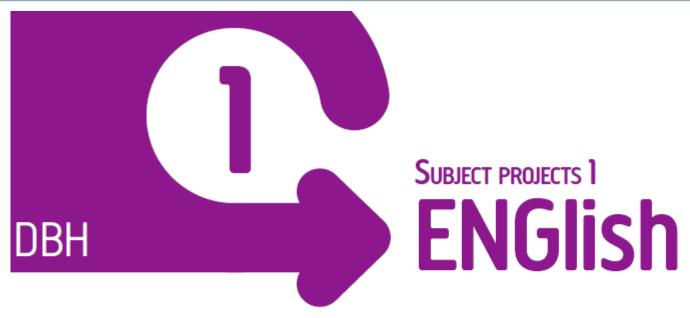


- 0. Establishing pre-knowledge/warmers/stimulating interest
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# Let's take the 'orientation' stage

0 1 2







### Unit 3

# The world of inventions

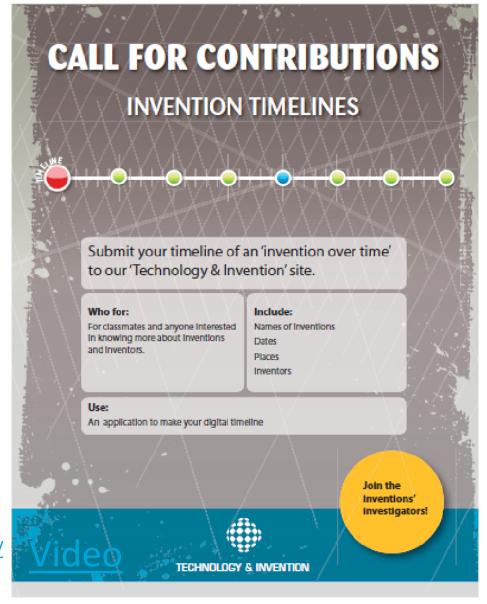
What do we need to learn?

**How** will we do it?

For whom?

*Using*....language?

https://www.ekigunea.eus/dbh/eu/edukia/dbh1/english/eng-1-3/U/7?lang=en



# Inventions: 'Orientation' (Stage 0-1)



1 Introductory activity INVENTIONS AND GADGETS

Humans invent things. It's what makes us special. We invent 'inventions' and 'gadgets'.

'Light' conceptual emphasis



**1.** Watch the video clip and write down as many 'gadgets' as you can remember.

'Light' (fun) procedure

- 2. Share your list with a partner.
- 3. Which pair spotted the most gadgets?

https://www.youtube.com/watch?v=2g\_3ovCnbd4

# Inventions Activity (stage 1-2)



in Tech

discourse)

Here is a famous invention or gadget, the 'corkscrew'. This is how we could talk about it.



Some indication of the language that will be needed for the eventual task

'Temporal' language

This gadge is called a 'corkscrew'

It was invented in 1795.

It is used for taking corks out of wine bottles.

Function

It works by screwing into the \_\_\_\_\_ and helping us to pull it out of the bottle.

Without corkscrews, it would be very difficult to pull out the cork.

Hypothesis

# Inventions Activity (2)

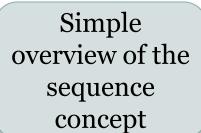


5. Here are two very famous gadgets. Talk to a partner and answer the questions about them below.



- a) What is each one called, in English?
- b) When was it invented?
- c) What are these gadgets used for?
- d) How do they work?
- e) Without these gadgets, what problems would we have?

Now they use the previous scaffolds to practise the type of discourse that will eventually be needed in the Final Task



Simple visual to support concept and procedure

The examples use technically correct subject discourse (CALP) and make it *salient* by repetition



#### 3 Exploring activity TIMELINE OF AN INVENTION: THE WHEEL

Sometimes we don't know who made an invention. For example the wheel; we don't know exactly who invented the first wheels or even where and when they were first used. But it is interesting to see how wheels have developed over time.

Look at how wheels have developed over time.



Match the descriptions of the different inventions with the pictures above.

- a) Wire spokes were invented in England in the 19th century by Sir George Caley.
  b) The plank wheel with three planks of wood attached by wooden cross pieces was invented around 3000 B.C. by the Sumerians in Mesopotamia.
  c) The modern pneumatic tyre was invented in 1888 in Scotland by John Dunlop.
  d) Spoked wheels were first used in Mesopotamia around 2000 B.C.
  e) The earliest wheels were made from solid wood before 3500 B.C. in Asia.
- 3. We can use a timeline to represent developments over time.
  Make a scale on the line to represent the dates as accurately as possible.
  Add the different inventions with the name and date of each.





#### 4 Exploring activity **THE BEST INVENTIONS: YOUR LIST**

Simple scaffolds for orientation stage

Open 'safe' activity (procedural emphasis)

Further scaffolds to support simple discussion

What do you think are the best inventions?

1. Look around your classroom. What inventions can you see that help your teacher to teach and that help you to learn? Give some examples.

The pen in my hand. I use it for writing.
The radiator under the window. It keeps us warm in winter, so we can come to school.

Now think of the whole world, and the whole of history.Work with a partner and make a list of your 'top ten' inventions of all time.

1_		
_	1)	
	2)	
	3)	
	4)	
	5)	
	6)	
	7)	
	8)	0 1 2
	9)	
1	10)	

3. Work with another pair. Share your list with them. Do

Orientation stage

4. Explain why you have made your other choices.

The X is very important/is the most important invention of all time because...

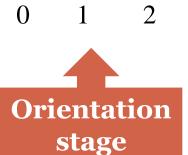
Without X it is very difficult to...

X helps you to...



# Let's look again! What was the 'shape' of that sequence?

### It represented the 'orientation' stage



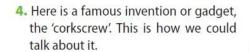


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This gadget is called a 'corkscrew' It was invented in 1795. It is used for taking corks out of wine bottles.



Without corkscrews, it would be very difficult to pull out the cork.





- a) What is each one called, in English?
- b) When was it invented?
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First taste of the 'starter' =

**Concept involvement + language indicators** 

Sometimes we don't know who made an invention. For example the wheel; we don't know exactly who invented the first wheels or even where and when they were first used. But it is interesting to see how wheels have developed over time.

1. Look at how wheels have developed over time.



2. Match the descriptions of the different inventions with the pictures above.

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4. Compare your timeline to your classmates'. Which one is the clearest and why?

### 'Exploratory' activities (interactive)

#### 4 Exploring activity THE BEST INVENTIONS: YOUR LIST

What do you think are the best inventions?

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	٠,	
	2)	
	3)	
	4)	
ULI		
ntions ac	cording	to a selection of

What does the general public think? Which are the best inver-

1. Work in groups of 3. Put the cards face down in a pile. Turn over the first two cards. Discuss and decide in your group which invention is more important. Continue with the next card, and so on, until you have ranked all the inventions.

2. Write down your top three.



3. Tell your 'Top 3' to the rest of the class. A secretary will transfer the data onto a graph on the board.



4. Which is the most popular 'best invention', according to your class?



nare your list with them. Do you have any the same?

de your other choices.

? most important invention of all time because...



Mainly 'BICS' but some basic 'CALP' (embedded and re-cycled)

### A typical CLIL 'orientation' sequence

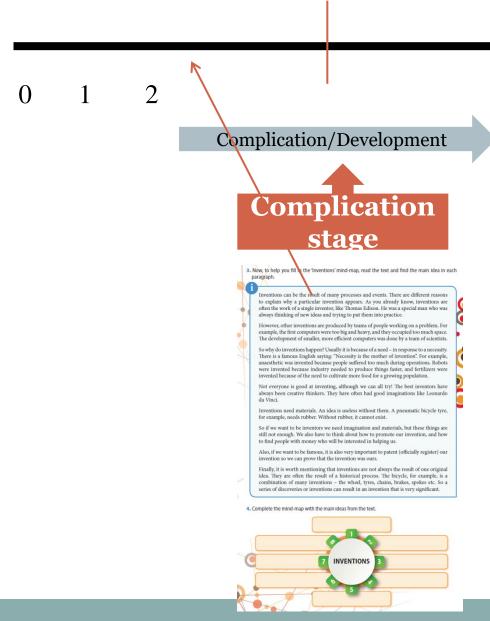
0 1 2



- Concepts (light)
- CALP indicators
- Interaction
- Exploratory (talk BICS)
- Open/safe
- Scaffold-rich

# Mercer's 3 types of talk (Mercer, N. 1995)

**Exploratory From less** structured Disputational To more structured Cumulative



Introduction of denser text

Reading
strategies to
identify and
develop the main
concepts (that
will be needed)

- Now, to help you fill in the 'Inventions' mind-map, read the text and find the main idea in each paragraph.
  - Inventions can be the result of many processes and events. There are different reasons to explain why a particular invention appears. As you already know, inventions are often the work of a single inventor, like Thomas Edison. He was a special man who was always thinking of new ideas and trying to put them into practice.

However, other inventions are produced by teams of people working on a problem. For example, the first computers were too big and heavy, and they occupied too much space. The development of smaller, more efficient computers was done by a team of scientists.

So why do inventions happen? Usually it is because of a need – in response to a necessity. There is a famous English saying: "Necessity is the mother of invention". For example, anaesthetic was invented because people suffered too much during operations. Robots were invented because industry needed to produce things faster, and fertilizers were invented because of the need to cultivate more food for a growing population.

Not everyone is good at inventing, although we can all try! The best inventors have always been creative thinkers. They have often had good imaginations like Leonardo da Vinci.

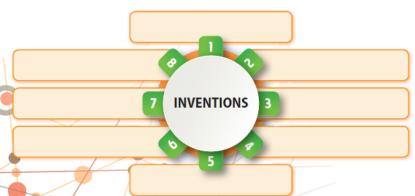
Inventions need materials. An idea is useless without them. A pneumatic bicycle tyre, for example, needs rubber. Without rubber, it cannot exist.

So if we want to be inventors we need imagination and materials, but these things are still not enough. We also have to think about how to promote our invention, and how to find people with money who will be interested in helping us.

Also, if we want to be famous, it is also very important to patent (officially register) our invention so we can prove that the invention was ours.

Finally, it is worth mentioning that inventions are not always the result of one original idea. They are often the result of a historical process. The bicycle, for example, is a combination of many inventions – the wheel, tyres, chains, brakes, spokes etc. So a series of discoveries or inventions can result in an invention that is very significant.

4. Complete the mind-map with the main ideas from the text.

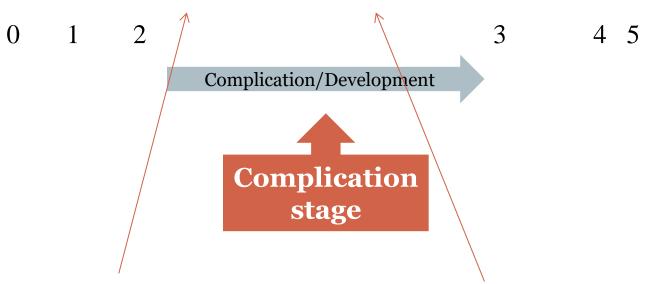


Changing subject – 'Micro-organisms' (Biology)



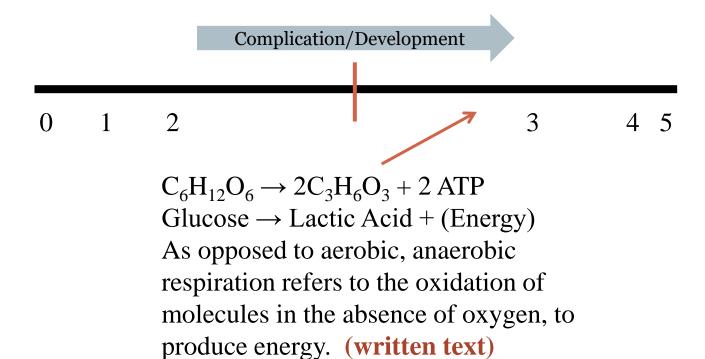


#### **Increasing** linguistic demand



Ok – in groups, make a list of all the defences that you think the human body has to prevent micro organisms from causing infection

Other white blood cells digest any cells that the antibodies adhere to. (More 'CALP' sounding)



CALP – Cognitive Academic Language Proficiency 'Secondary discourse' (Gee, 2001)

# A 'CALP journey'

0 1 2

Orientation stage

Complication stage

3 4 5





## a) Whe spokes were invested in England in the 19th century by Sr George Caley. 8) The plant where with three plants on sood attached by wooden crops proces was 1) The condemperature by the size invested in 18th Six Fortland by Moh Durling. 1) The modern presentate by the was invested in 18th Six Fortland by Moh Durling. 10 Spoked when'the were first used in Mesopatarea around 2000 RE. 10 Spoked when'the were first used in Mesopatarea around 2000 RE. In Acad.

3. We can use a timeline to represent developments over time.
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'Resolution' (Back to Technology)

0 1 2

3 4 5



 Your teacher will show you texts about different inventions. Choose one of them. Read the text carefully, and identify the information that you need for the timeline. Transfer the information onto the table below.

#### NAME OF INVENTION:

THE PROGRESS OTHER OF THE WHEN WAS IT INFORMATION WHERE WAS IT WHO INVENTED INVENTION E.G. HOW DID INVENTED? INVENTED? IT? OVERTIME IT WORK?

Synthesising the concepts

(Stage 3)

Now write out short descriptions of each invention for your timeline. These descriptions are the ones that you will use for your timeline. Use the information from the table above. Student checklist before presentation (procedural)



= Final summative task preparation (for an exam)



#### 37 Self-assessment activity REFLECTING ON MY WORK

Now that you have finished writing and presenting the timelines, complete the three tables below.

	FOR THE TIMELINE, I	I MANAGED WELL	I DIDN'T MANAGE VERY WELL
TASK 1	filed in all the table cells I could with the information in the text.		
	placed the information in the correct cell.		
	copied the informion with the correct spelling.		
TASK 2	described the inventions.		
	organised information according to the categories that appear in the task.		
	used pronouns.		
	used temporal expressions.		
1	used the infinitive of purpose to describe what inventions are for.		
	used the passive (past tense).		
	created a digital timeline with texts and images.		
TASK3	wrote a short biography of an inventor.		
	organised information according to the categories that appear in the task.		
	used pronouns.		
	used the past tense.		
	inserted the information into the timeline.		

Self-assessment (after tasks)

Note the emphasis on the 3 dimensions



### 'Dimensions'

Concepts Procedures Language

If teachers are aware of these stages

If the learners are aware of the stages (and their different demands)

If we're aware of which dimension is being prioritised

If we make the learners aware of this ('let's just take a look at the language here....'

....then the teaching-learning process, using an additional or foreign language.....

....is facilitated

.....I think!

The Shape of a CLIL Sequence

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Thanks for listening!