

# CONSIDERING A CLIL SEQUENCE

INSPIRED BY THE WORK OF PHIL BALL



# AN EDUCATIONAL EVENT

**Orientation**



**Complication**



**Resolution**

**A SINGLE LESSON**

**A series of lessons**

**An entire topic over weeks/months**

# WHY SEQUENCE THEORY HELPS US PLAN EFFECTIVE CLIL LESSONS

What happens in  
these  
stages/phases?

A diagram illustrating the components of CLIL lessons. On the left, a teal box contains the text 'What happens in these stages/phases?'. Three red arrows originate from the right side of this box and point to three separate text blocks on the right. The top arrow points to 'in terms of the types of knowledge expected to be taught / learned ?' followed by the word 'concepts' in red. The middle arrow points to 'in terms of the types of activities ?' followed by the word 'procedures' in red. The bottom arrow points to 'in terms of the language that accompanies the learning ?' followed by the word 'language' in red.

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

**concepts**

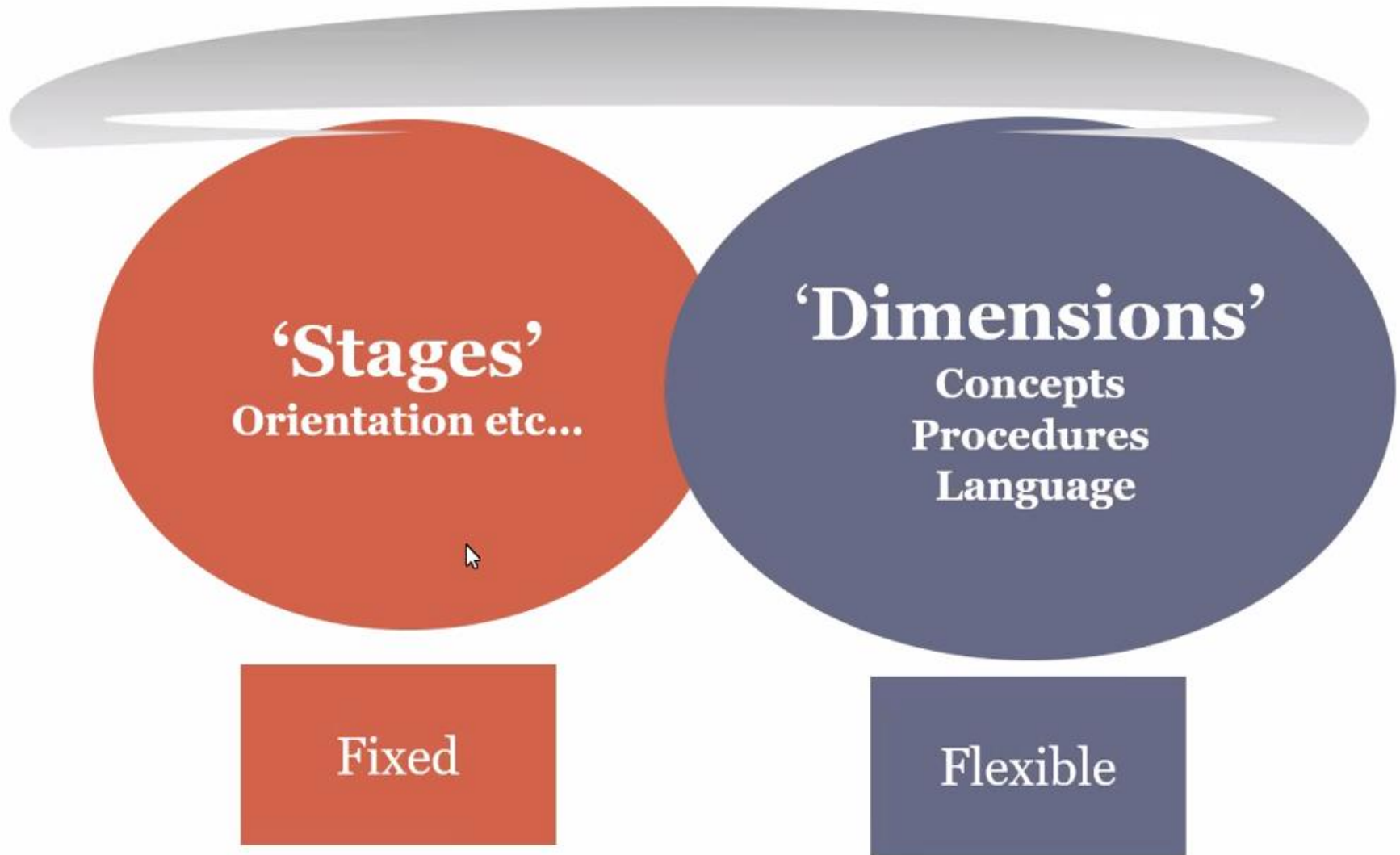
in terms of the types of activities ?

**procedures**

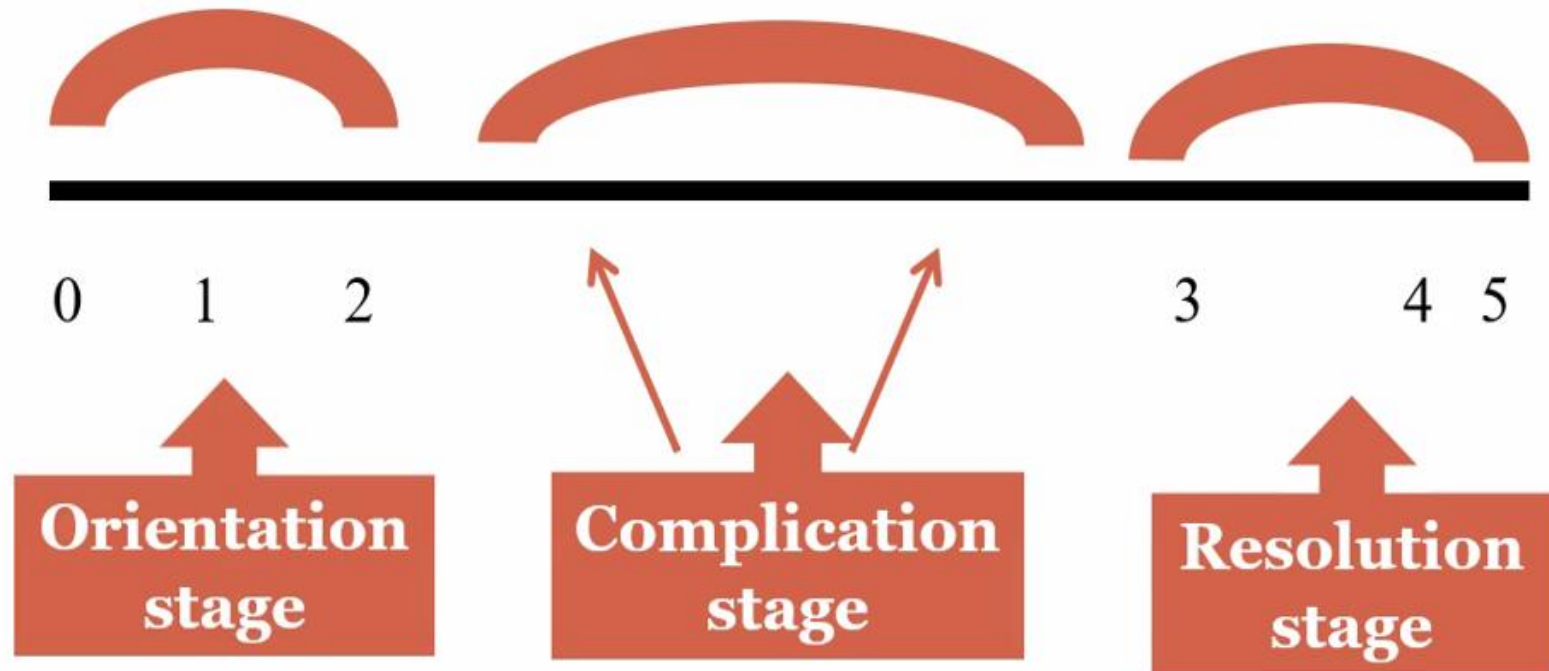
in terms of the language that  
accompanies the learning ?

**language**

# Two overlapping notions

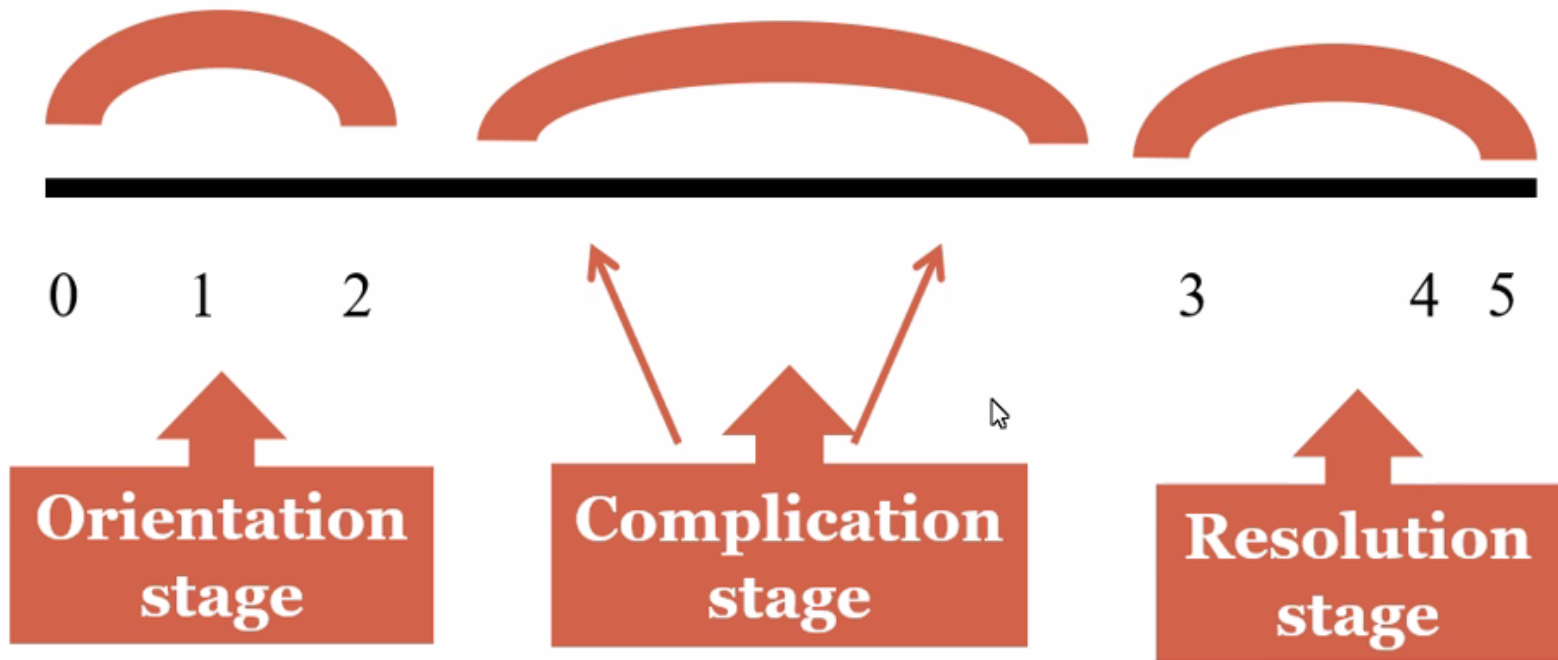


*For example: A sequence of 3 weeks/12 hours classtime = one topic*



- 0-1. Establishing pre-knowledge/warmers/stimulating interest
- 1-2. Introductory
- 2-3. Main conceptual content

*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)

DBH

SUBJECT PROJECTS 1

# ENGLISH

Unit 3

## The world of inventions







## 1 Introductory activity **INVENTIONS AND GADGETS**

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



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

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



[https://www.youtube.com/watch?v=2g\\_3ovCnbd4](https://www.youtube.com/watch?v=2g_3ovCnbd4)



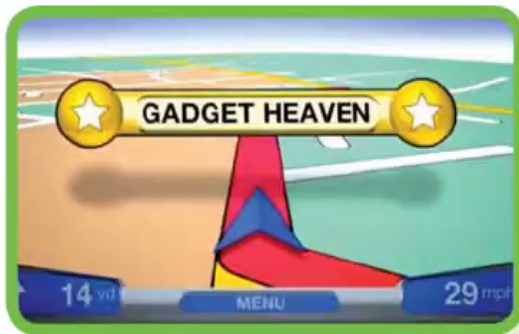
# Inventions: 'Orientation' (Stage 0-1)



## 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?

**BICS**  
language

[https://www.youtube.com/watch?v=2g\\_3ovCnbd4](https://www.youtube.com/watch?v=2g_3ovCnbd4)

# Inventions Activity (stage 1-2)



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

*This gadget is called a 'corkscrew'*

*It was invented in 1795.*

*It is used for taking corks out of wine bottles.*

*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.*



# Inventions Activity (stage 1-2)



Passive  
(common  
in Tech  
discourse)

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

'Temporal'  
language

*This gadget 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



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



# 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?



# Inventions Activity (2)



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

# EXPLORATORY ACTIVITY

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.

<input type="checkbox"/>	a) Wire spokes were invented in England in the 19th century by Sir George Caley.
<input type="checkbox"/>	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.
<input type="checkbox"/>	c) The modern pneumatic tyre was invented in 1888 in Scotland by John Dunlop.
<input type="checkbox"/>	d) Spoked wheels were first used in Mesopotamia around 2000 B.C.
<input type="checkbox"/>	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.





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

Simple  
overview of the  
sequence  
concept

Simple visual  
to support  
concept and  
procedure

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Talking

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Simple  
overview of the  
sequence  
concept

Simple visual  
to support  
concept and  
procedure

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

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## 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.*

2. 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)	
2)	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	

3. Work with another pair. Share your list with them. Do you have any the same?
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*

Simple  
scaffolds for  
orientation  
stage

Open 'safe'  
activity  
(procedural  
emphasis)

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# ORIENTATION STAGE

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



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

First taste of the 'starter' =

**Concept involvement + language indicators**



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

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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?

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.

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2. 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)
- 2)
- 3)
- 4)

### 5 Exploring activity **THE BEST INVENTIONS: VOX POPULI**

What does the general public think? Which are the best inventions according to a selection of sites on the Internet?

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?



are 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

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0      1      2



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



# Complication Stage

i

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.





## Consider the task rubrics - what effect does the choice of phrasing of each rubric have?

A. Read the text - then  
complete the mind-map  
with the main ideas from  
the text.

B. Read the text to identify  
the idea in each  
paragraph.  
Complete the mind-map  
with those ideas.

C. Complete the mind-  
map with information  
about eight inventions –  
use the text to help

i

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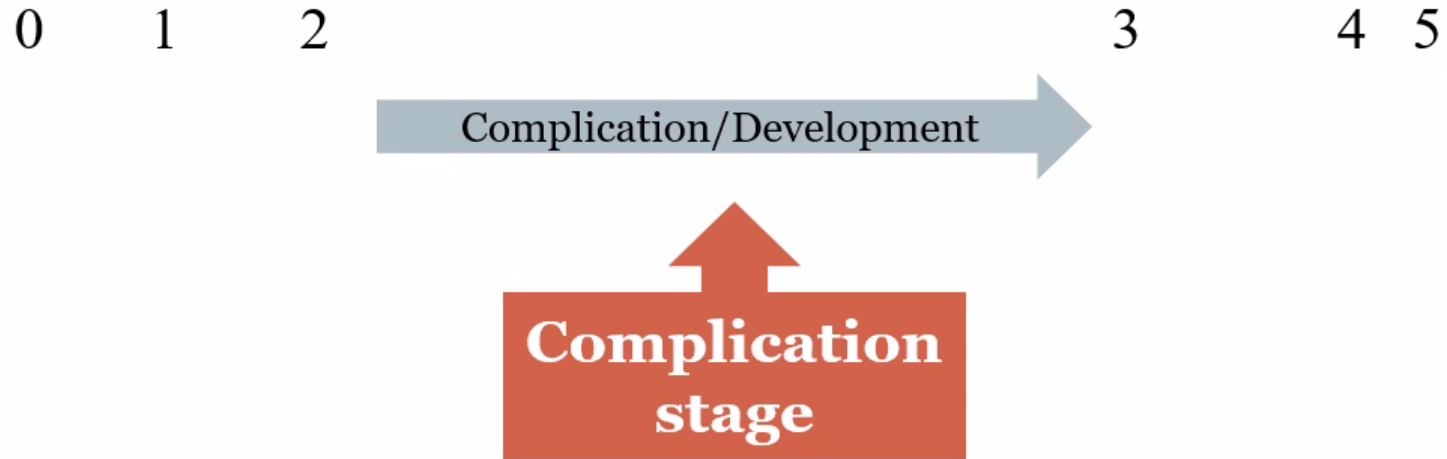
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## Increasing linguistic demand



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)

0

1

2

3

4

5

Complication/Development

**Complication  
stage**

**Introducing more specific technical vocabulary**  
**Increasing linguistic demand - CALP**

**Activities to work with / process information:**

**Recycling language**

**Reading / listening tasks**

**Speaking / writing tasks**

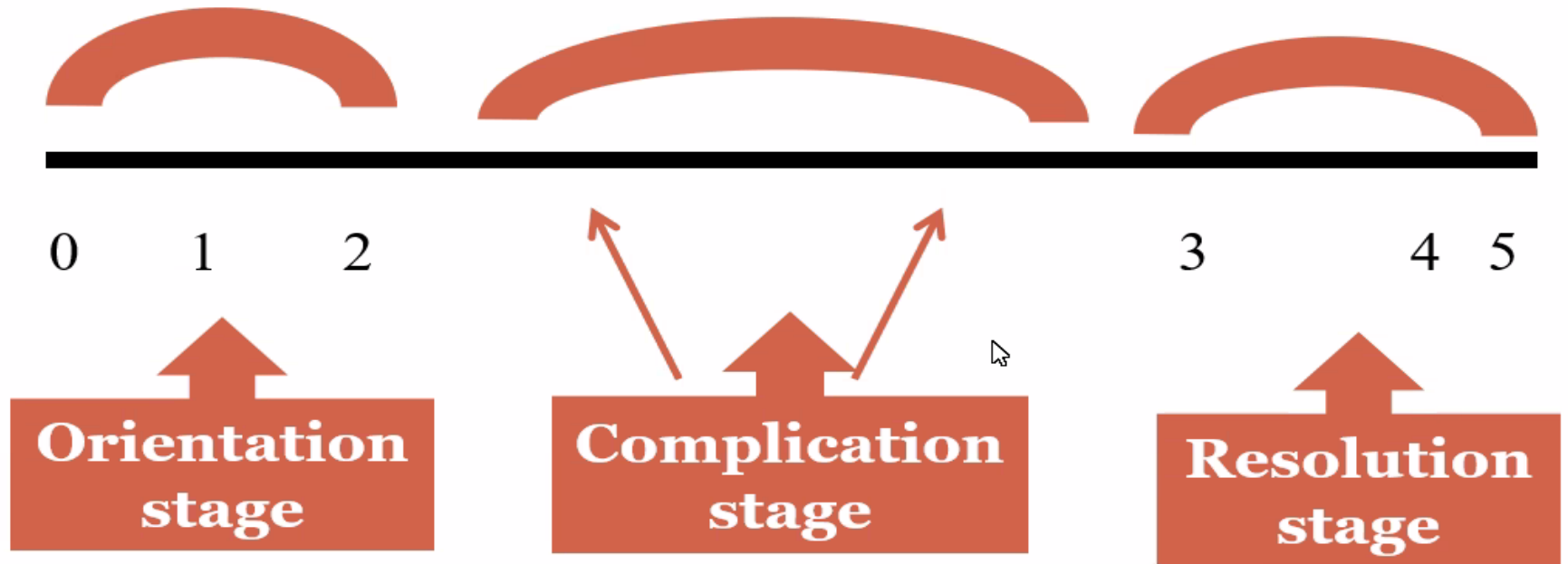
**Experiments**

**Collaborative activities**

**Providing scaffolding in the form of**

**Speaking frames**

**Visual organisers**



Final task –  
involving creativity,  
synthesis  
Evaluation – quiz,  
test - assessment  
(incl. self or peer)  
Feedback

# Synthesising the concepts (Stage 3)

1. 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 OF THE INVENTION OVER TIME	WHEN WAS IT INVENTED?	WHERE WAS IT INVENTED?	WHO INVENTED IT?	OTHER INFORMATION E.G. HOW DID IT WORK?

2. Now write out short descriptions of each invention for your timeline. These descriptions are the

Student checklist  
before  
presentation  
(procedural)

ARE YOU READY?

Checklist



Have you uploaded your timeline (texts and pictures) onto the digital timeline?

Have you decided who will say what?

Have you thought of an interesting way to start your presentation?

*E.g. with a question, showing an object*

Have you practised?

= 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	filled in all the table cells I could with the information in the text.		
	placed the information in the correct cell.		
	copied the information 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.		
	used the infinitive of purpose to describe what inventions are for.		
	used the passive (past tense).		
	created a digital timeline with texts and images.		
TASK 3	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 task)