

# Exciting Experiments or how to interweave Science into language teaching

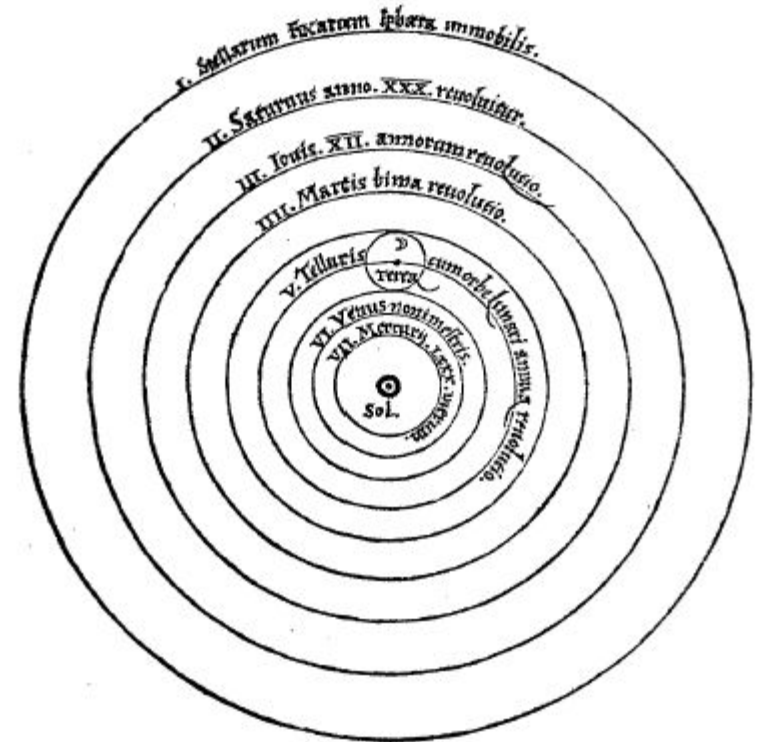
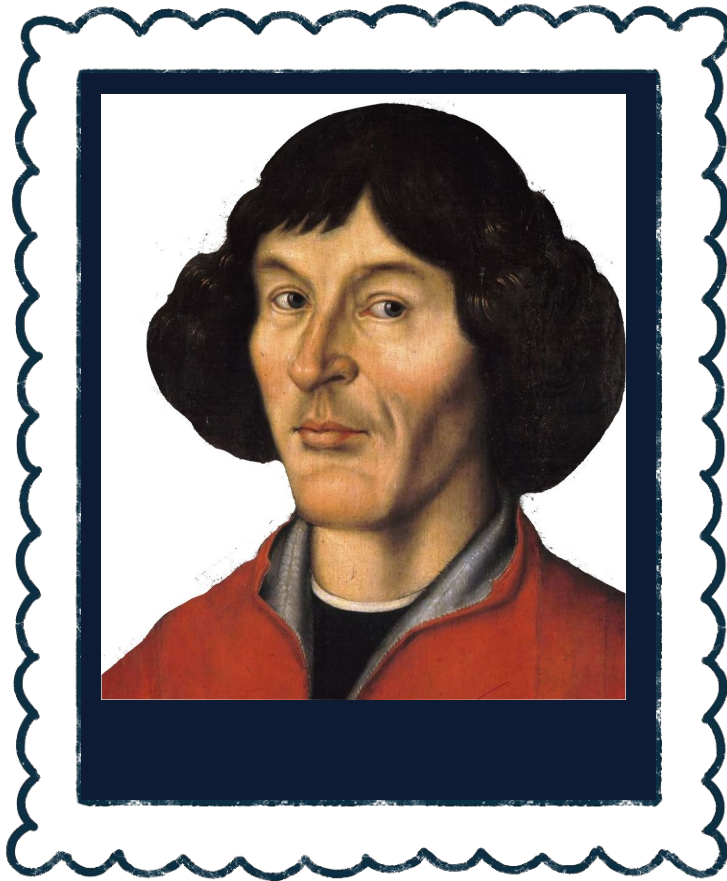
Aleksandra Zaparucha



# Toruń, Poland



# Toruń, Poland



# Professional Development

## Geography & English

# Professional Development

Geography & English

Geography in English

# Professional Development

Geography & English

Geography in English

Training Geography CLIL teachers

# Professional Development

Geography & English

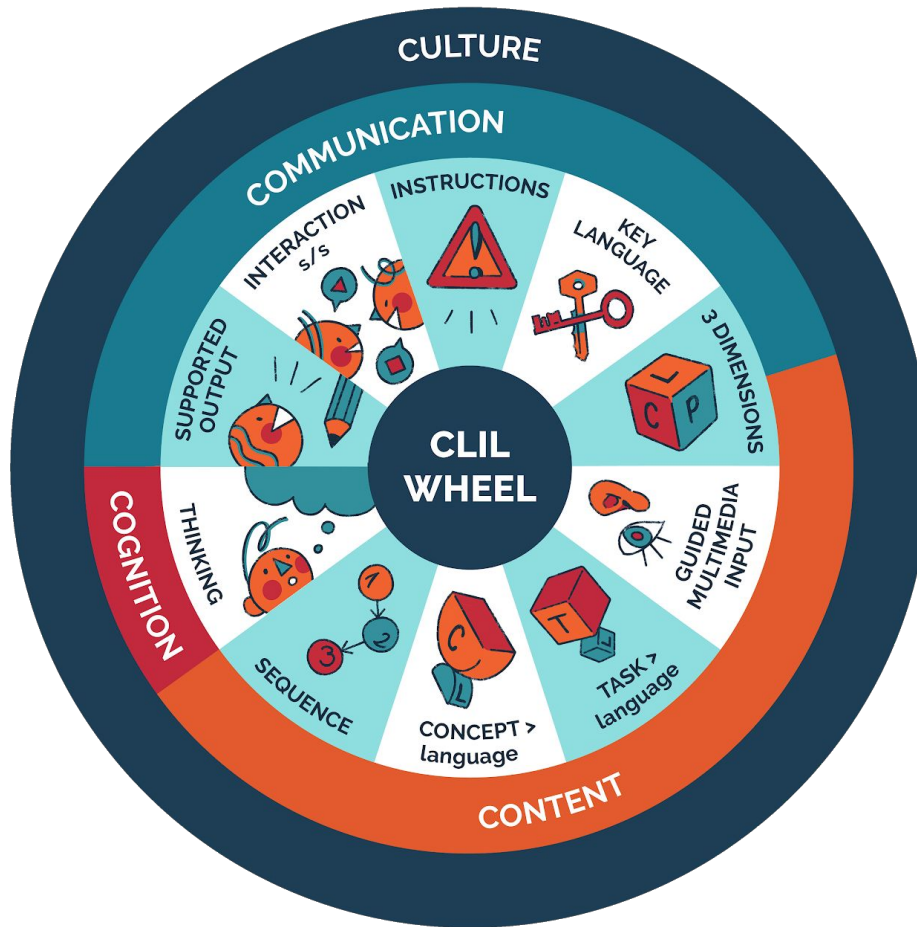
Geography in English

Training Geography CLIL teachers

Training CLIL teachers



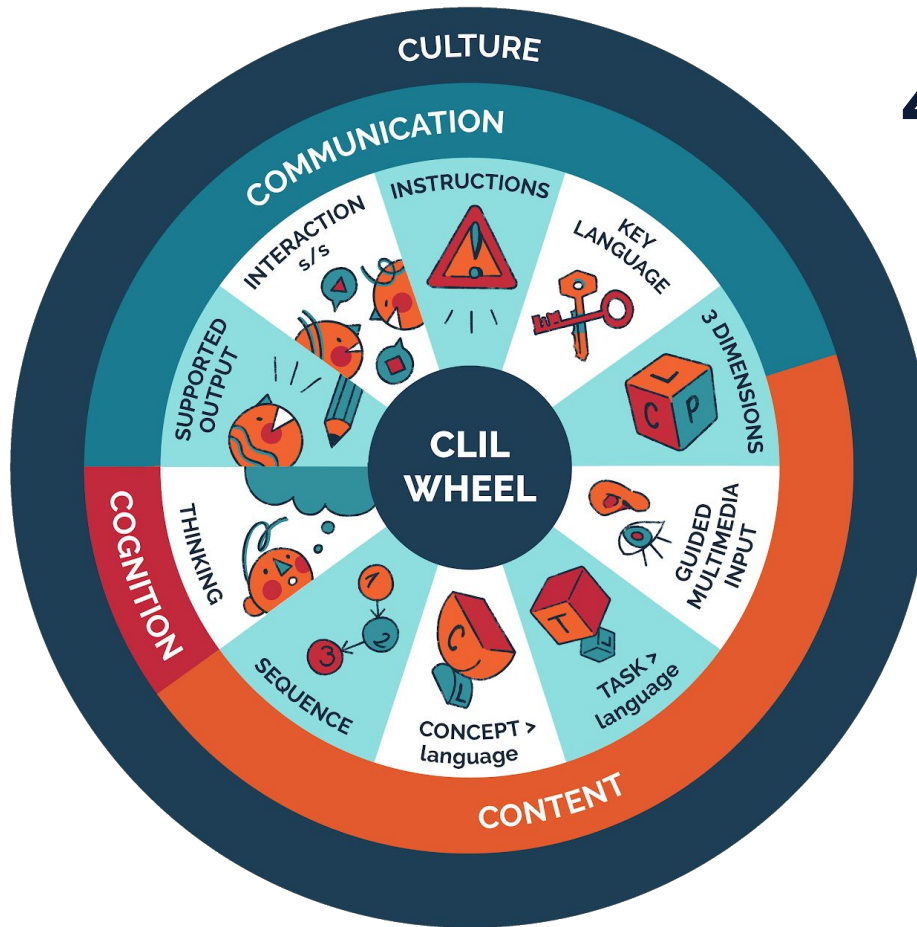
# The CLIL Wheel



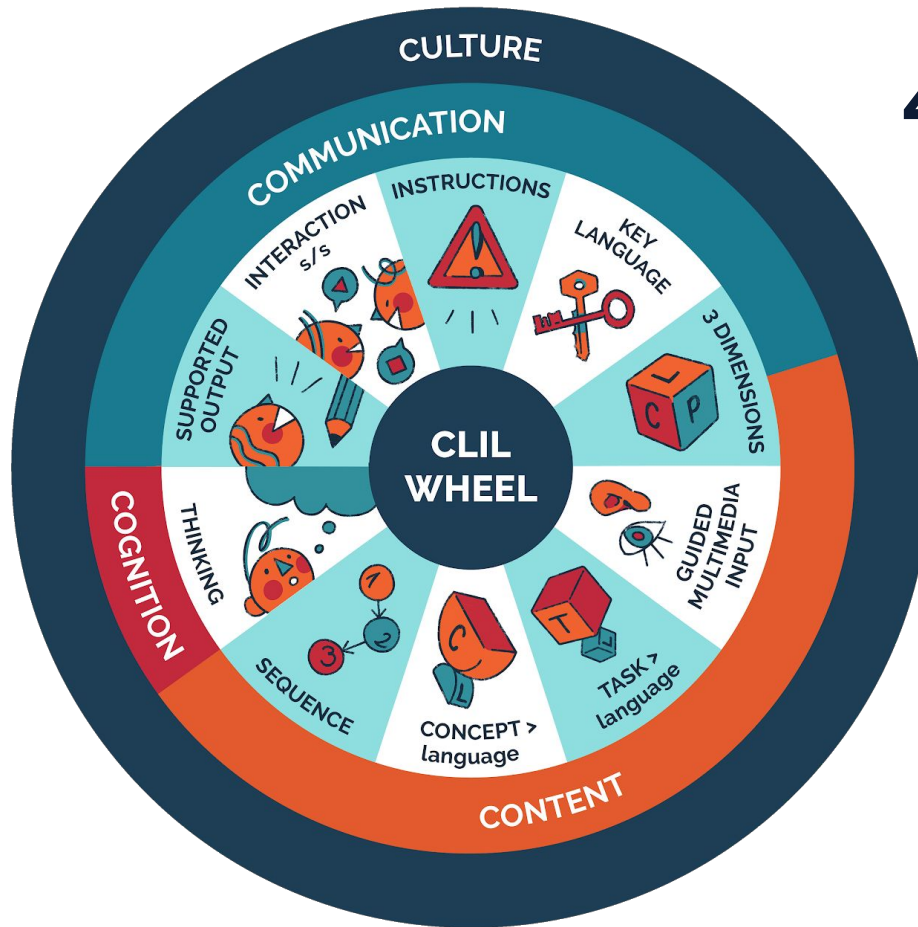


# The CLIL Wheel

4Cs + 10 Ps



# The CLIL Wheel



4Cs + 10 Ps



**CLIL  
MATTERS**

# Content & Language Demands

C O N T E N T  D E M A N D S	H			
	M			
	L			
		L	M	H
	L A N G U A G E D E M A N D S			

# Exciting Experiments

## Questioning

# Exciting Experiments

Questioning  
Hypothesising

# Exciting Experiments

Questioning  
Hypothesising  
Experimenting

# Exciting Experiments

Questioning  
Hypothesising  
Experimenting  
Observing



# Exciting Experiments

Questioning  
Hypothesising  
Experimenting  
Observing  
Concluding

# Exciting Experiments

Questioning  
Hypothesising  
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Observing  
Concluding  
Reporting

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Concluding  
Reporting

1.

# Exciting Experiments

Questioning  
Hypothesising  
Experimenting  
Observing  
Concluding  
Reporting

2.



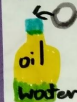

# Exciting Experiments

Questioning  
Hypothesising  
Experimenting  
Observing  
Concluding  
Reporting

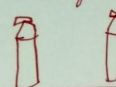

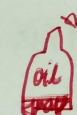
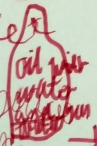
3.

# Exciting Experiments

## OUR EXPERIMENT

<h3>① INGREDIENTS</h3> 	<h3>② OUR HYPOTHESIS</h3> <p>tap water + green food colouring</p> <p>oil</p> <ul style="list-style-type: none"> <li>- chain reaction</li> <li>- oil and water will mix (new colour: light-green)</li> <li>- oil and water will not mix (water on oil and water under oil)</li> </ul>
<h3>③ OBSERVATIONS</h3>  <ul style="list-style-type: none"> <li>1) Oil and water don't mix</li> <li>2) Oil is on the water because it is lighter</li> </ul>	<h3>④ OUR HYPOTHESIS</h3> <ul style="list-style-type: none"> <li>- there will be bubbles in the oil</li> <li>- no explosion</li> <li>- there will be an explosion</li> <li>- the colour will change</li> </ul> 
<h3>⑤ OBSERVATIONS</h3>  <ul style="list-style-type: none"> <li>oil with water &amp; gas</li> <li>← bubbles</li> <li>← water</li> <li>tablets dissolve in the water.</li> <li>gas bubbles go up.</li> </ul>	<h3>⑥ CONCLUSIONS</h3> <p>water is heavier than oil so it stays at the bottom. Oil is lighter than water so it stays on the water. Gas is lighter than oil and water so it moves up.</p>

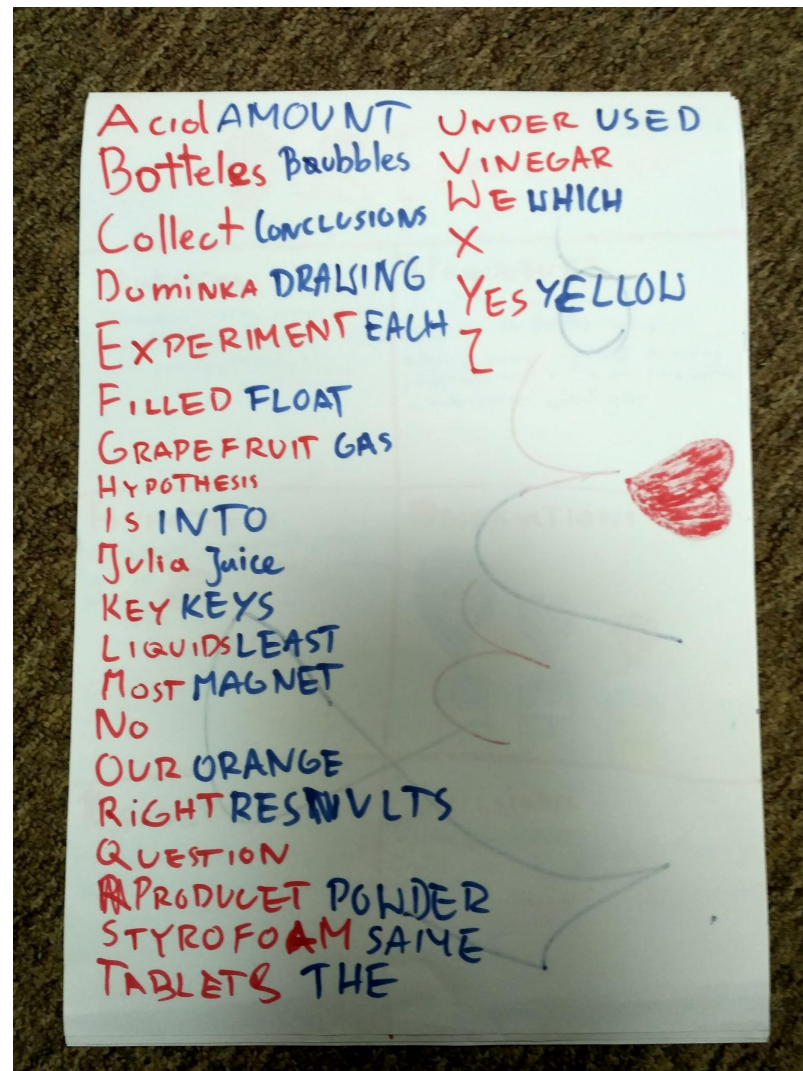
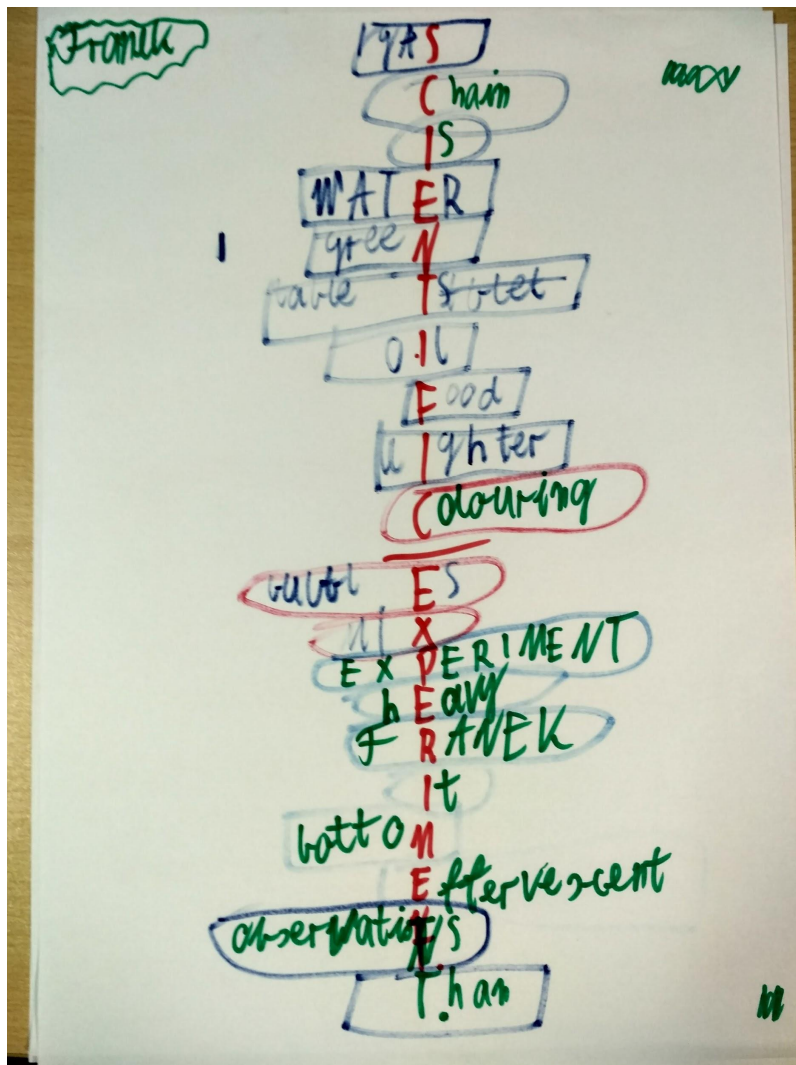
## our experiment

<h3>① Ingredients:</h3> <p>food colouring, cooking oil, tap water, effervescent tablets</p> 	<h3>② Our hypothesis</h3> <p>tap water + red food colouring</p> <p>oil</p> <p>oil and water will not mix</p>
<h3>③ Observations</h3>  <p>oil and water don't mix</p> <p>2) Oil is on the water because it is lighter.</p>	<h3>④ Our hypothesis</h3>  <ul style="list-style-type: none"> <li>- there will be an explosion</li> <li>- the colour will change</li> <li>- there will be bubbles in the oil</li> <li>- no explosion</li> </ul>
<h3>⑤ Observation</h3>  <p>oil and water don't mix</p> <p>oil is on the water because it is lighter.</p>	<h3>⑥ conclusion</h3> <p>Water is heavier than oil it stays at the bottom.</p> <p>Gas is lighter than oil and water so it moves up.</p>

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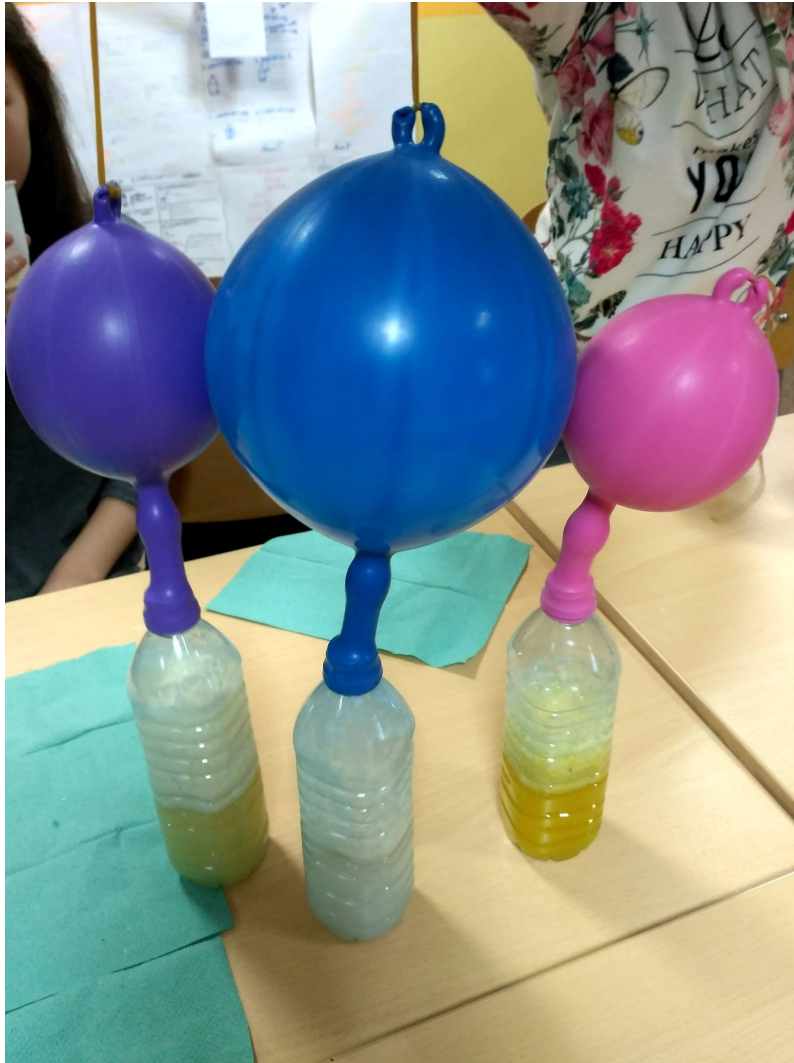


# Exciting Experiments





# Exciting Experiments



# Content-Enhanced Language Teaching

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Other options

# Content-Enhanced Language Teaching

Other options

- extend your coursebook

# Content-Enhanced Language Teaching



food

# Content-Enhanced Language Teaching



food



clothes

# Content-Enhanced Language Teaching



food



clothes



waste

# Content-Enhanced Language Teaching

Other options

- use CLIL pages



# Content-Enhanced Language Teaching

Other options

- explore CLIL readers

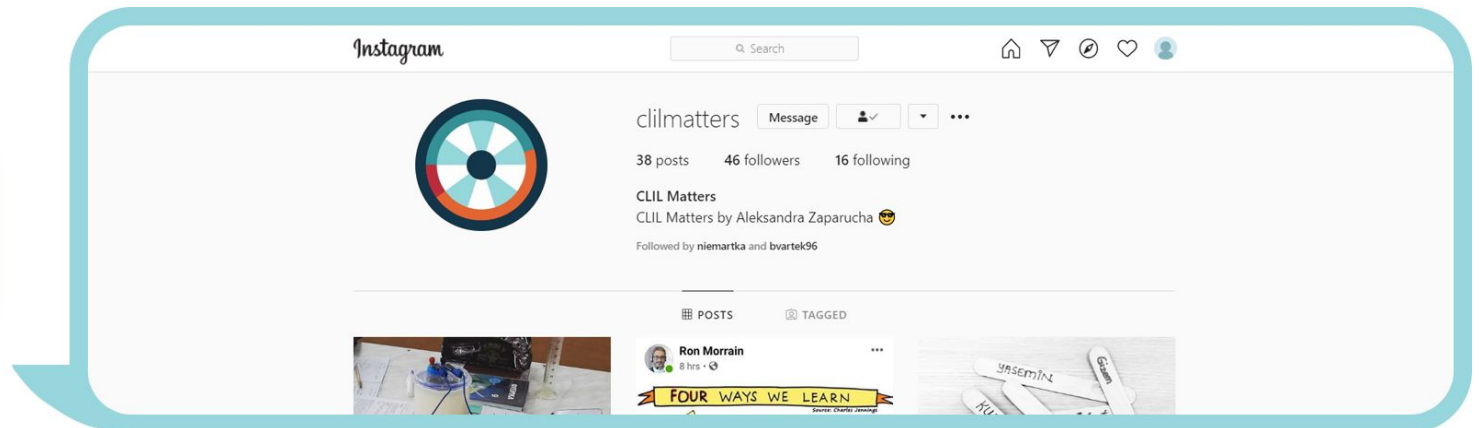
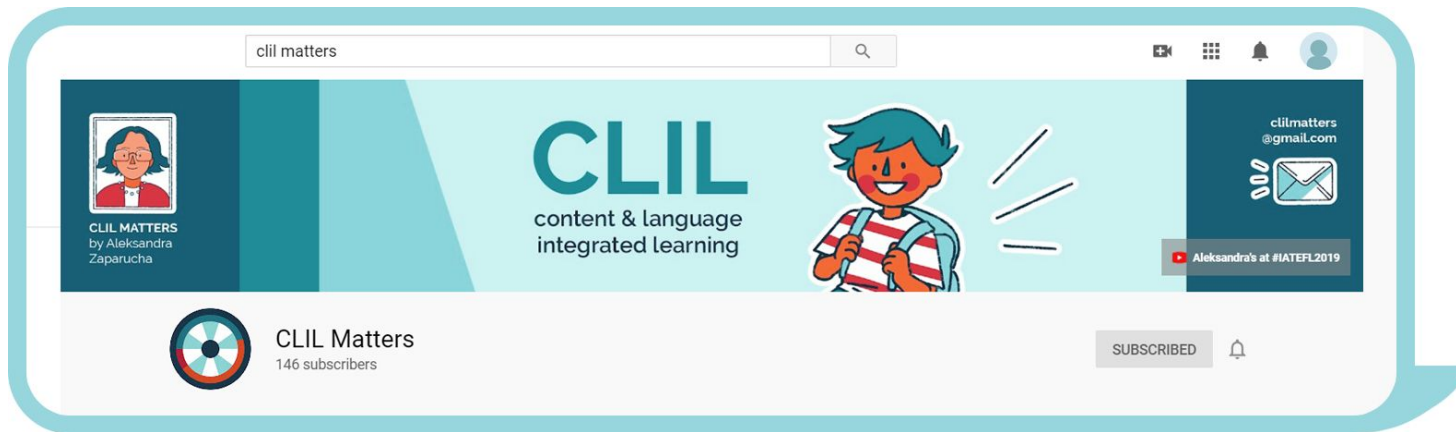
# Content-Enhanced Language Teaching

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**Express Publishing**

# Social Media



# Get in Touch



Aleksandra Zaparucha  
**[ola.zaparucha@gmail.com](mailto:ola.zaparucha@gmail.com)**  
**[info@clilmatters.com](mailto:info@clilmatters.com)**

design & illustrations  
Marta Zaparucha



Q & A