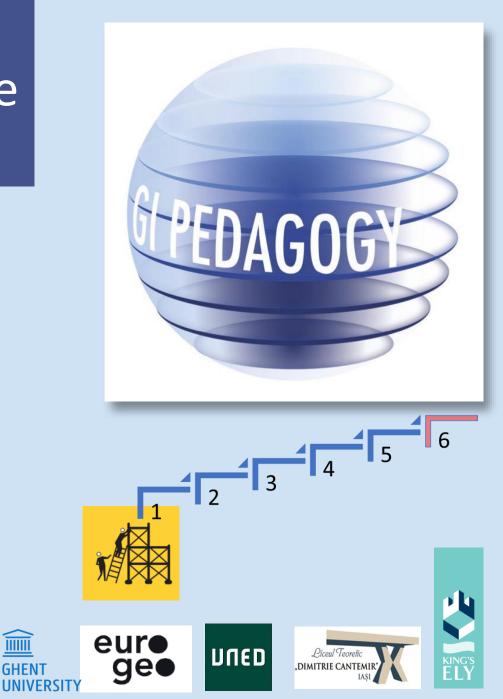
Module 3: Sequencing/integrating GIS into the curriculum

1) Curriculum Sequencing



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Module 3: Sequencing/integrating GIS into the curriculum

Introduction

- What does curriculum sequencing mean?
- How can we integrate GIS into the curriculum to:
- □ to create a sense of place
- develop locational knowledge?

Sequencing examples from the English + Spanish curriculums.













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6

What does sequencing the curriculum mean?

Integration of GIS in the national curricula, has been done by drawing on Rosenshine's
Principles of Instruction

This has been done by using the scheme of work and curriculum plans from both the English and Spanish curriculum

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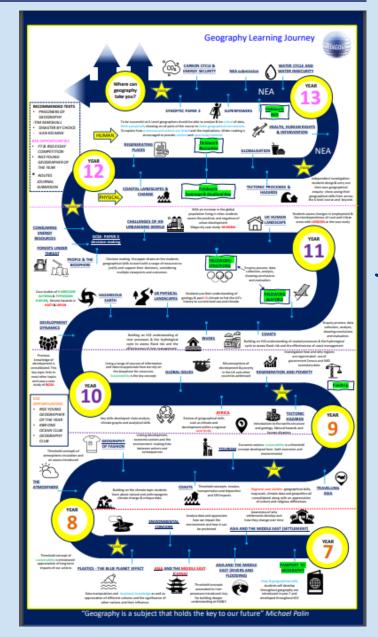
- Locational knowledge
- Sense of Place
- Curriculum content
- Use of GIS to develop spatial literacy
- Sustainability
- Knowledge and Competencies



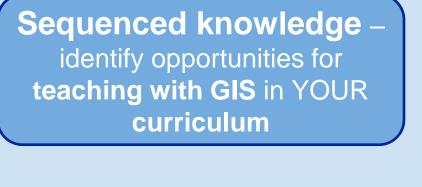




English Curriculum: Sequencing mapped



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English Curriculum: Sequencing mapped



Sequence of lessons

Geography Department

	Autumn (? weeks)	Spring (? weeks)	Summer (? weeks)
Yr 7	Passport to Geography: selected countries	Asia + Middle East: Physical - Rivers + Flooding	Environmental concern
	Asia + Middle East: (Human - settlement)	Asia + Middle East: China	Plastics: the Blue Planet effect
Yr 8	The Atmosphere	Coasts	Travelling Asia
	The Geography of Fashion	Tourism	
Yr 9	Techtonic hazards	Africa	India
	Regeneration + Poverty	Global issues	
Yr 10	2) Development Dynamics	4) UK Physical Landscapes	4.2) Coasts
	1) Hazardous Earth	4.1) Rivers	6) Seaford Fieldwork
Yr 11	6) UK Human Landscape + Stratford Fieldwork	7) People + the Biosphere	9) Consuming energy resources
	3) Challenges of an Urbanising World	8) Forests under threat	
Yr 12	Regenerating Places	Boscombe/Swanage + Studland Fieldwork	Tectonic Processes + Hazards
	Coastal Landscapes + Change	Globalisation	Health, Human Rights + Intervention
Yr 13	Water cycle + Water Insequrity	Superpowers	Synoptic Paper 3
	NEA	Carbon Cycle + Energy Security	

Identify opportunities for teaching with GIS in YOUR curriculum

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Keep in mind

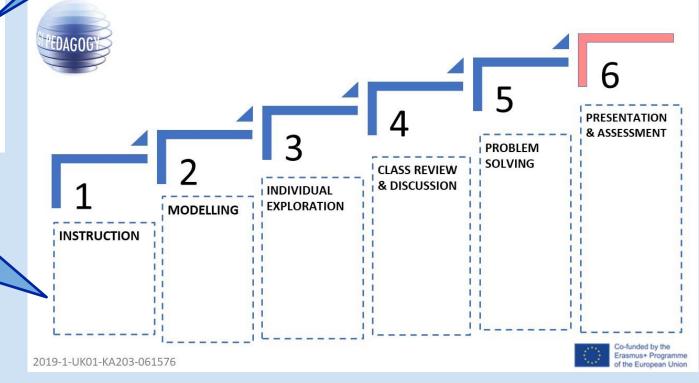
SUSTAINABLE G ALS



Source: United Nations

Sequence curriculum content knowledge and technical skills carefully Link curriculum topic to the Sustainable Development Goals

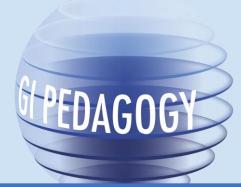




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Integrating GIS into the curriculum



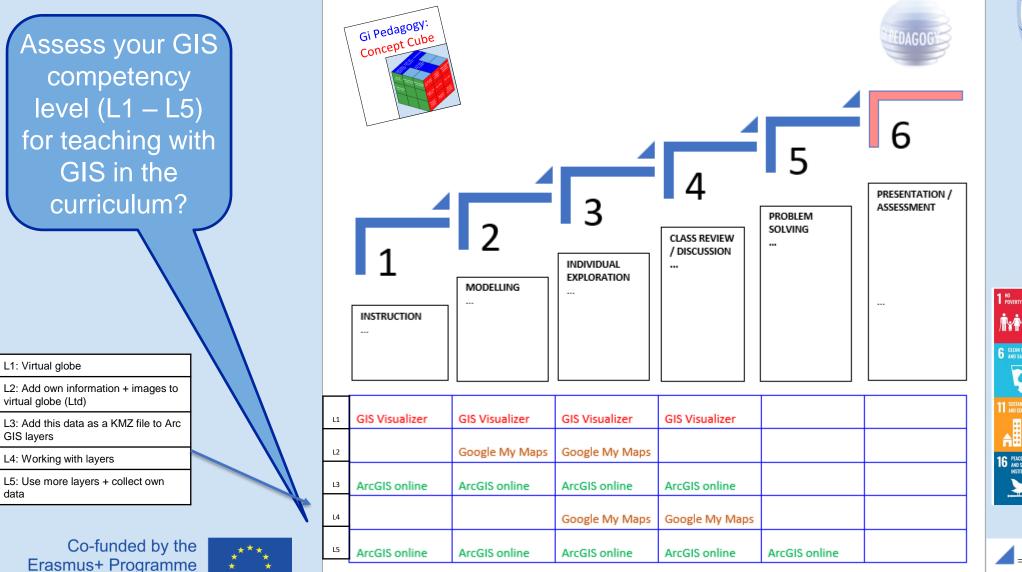
Торіс	Curriculum	Define knowledge, skills and competencies to enhance	Create a case- study	Select GIS	Select technical competency complexity level for GIS use
Identify a suitable topic to teach with GIS. Link to sustainability (SDGs) Gi Pedagogy: Concept Cube	Must teach a curricular topic. Link your topic to curriculum in order to make it clear.	Must define knowledge you want your students to achieve. Include skills and competencies you want to work. These may be determined by the curriculum or selected by the teachers due to students needs	Create or use an already created case study upon the principles of instruction. This case study will permit achievement of objectives and assess students	Select a GIS tool or map to support your teaching, taking into account previous experience of using GIS – making sure a stepped approach is used.	According to your students GIS experience and the time you have to develop the topic, choose complexity level.The goal is making it possible for your students to create. Again, step by step

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Curriculum: GIS Sequencing

of the European Union





3 GOOD HEALTH AND WELL-BEIN 5 GENDER _ { { { } Į **Ň**ŧ**Ť**ŧŤ _⁄\/`• 6 CLEAN WATER AND SANITATIO 8 DECENT WORK AND ECONOMIC GROWT Q 1 13 CLIMATE ACTION 12 RESPONSIBLE CONSUMPTION 14 LIFE BELOW WATER 15 LIFE ON LAND \mathcal{CO} 16 PEACE, JUSTICE AND STRONG INSTITUTIONS 17 PARTNERSHIPS FOR THE GOALS SUSTAINABLE DEVELOPMENT 8

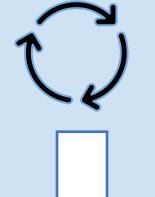
= checking understanding

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Integrating GIS into the curriculum - Final objective

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Geographical Content Knowledge



Principles of

Instruction

Technical Competency Level

Use of

GIS

Locational Knowledge of places

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Sustainable

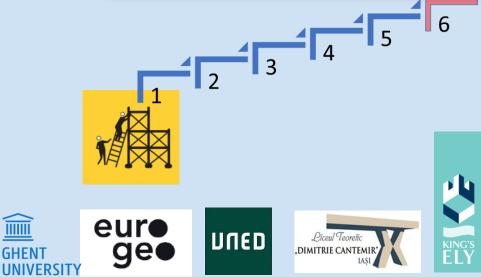
Curriculum



Powerful Disciplinary Knowledge

Module 3: Sequencing/integrating GIS into the curriculum Sophie Wilson, Miguel A. Puertas

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