Tasks

Your class is going to create a Shoal fish with augmented reality using Bippar. You are going to introduce the fish that we can see in a tank the Aquarium Finisterrae in A Coruña. Please provide all the informationthat is necesary to get knowledge about the about the species that live in the aquarium.

Expected leaning outcomes

Integrate in the curriculum Ocean Literacy, creative ICT,

Students will achieve the eight practices of science that the *Framework* identifies as essential for all students to learn:

- 1. Asking questions
- 2. Developing and using models
- 3. Planning and carrying out investigations
- 4. Analyzing and interpreting data
- 5. Using mathematics and computational thinking
- 6. Constructing explanations.
- 7. Engaging in argument from evidence8. Obtaining, evaluating, and communicating

information.

Shoal fish

Skills and competences

– Targeted

- -Working in groups playing different roles.
- -Explain and debate with fellow group.
- Use technology tools.
- Manipulative skills

Emerging

- -Share knowledge with others.
- -Learn to learn
- Science competence
- scientific method

Digital Tools

Blippar

Any editing tool

Internet

Learning goals

Be able to obtain knowledge to generate questions and analyze the characteristics, knowledge about fish and link them with the survival of the species.
Promote reflection on feedback between peers and design together the presentation of a species using Augmented Reality.

 Create a screen that offers information about a school of fish that represents an aquarium tank
 Offer visible and reallistic information using
 Augmented Reality.

Know How

How are we going to do it? What do we need? How will it work? How will we make it with Augmented reality? Is it working? What we want it too? Are we ready to display it and share it with others? Which format are we going to use?

Explore

Students should explore patterns of behaviour in animals (fish) by posing, selecting or being given scientifically orientated questions to investigate. <u>They should then</u> Plan a visit to an aquarium to observeanimals in their natural habitat at some point over this first

Analyse & Explain

Students should begin to analyse the data they have gathered by discuss it with each other and their teacher. They should begin to consider the possible explanations

Students will be asked to create information about what they've found out about a fish

Students should work collaboratively to begin to apply their understanding to start to consider how they can create a visual representation that moves authentically and accurately. Students will propare a template- with the information they need

Implement

Vocabulary

Shoal, survival, texture, technique,

Augmented Reality behaviour, light,

collaboration, adaptation,

colour, effectiveness, motion,

streamline, drag, space, risk,

assessment, habitats, motion

through fluid, material,

The aim of this phase is for students to develop their idea of how to create an accurate shoal of fish as well as to consider fish position and how this influencesthe overall appearance of the shoal. Students should create their blipps to represent each fish

Communicate results

Students will install produce their blips , when they are ready to present to the calss or the wider school community to share their explanation of this sort of behaviour in fish and to justify their choices of material and display At the class a gropup of five will assess the whole process Students then need to reflect collaboratively on the effectiveness of the materials used in representing fish in a Tank



Title: Shoal Fish	
Teacher: Milagros Trigo School: CPI Plurilingüe O Cruce	Class: 2º A
Task: Explore the different animals that gresearch work about the animal. Create is description	grow in the Aquarium Finisterrae pools. Choose one of the animals and do a nformation using different formats: video, link, photographs, recipes, fish
Publish your work in Internet	enober non, when an non create your class onear non

Phases of the project

The teacher will assess all project phases

Explore	analize, explain	Implement	communicate results
	and document		

1. Make observations in the aquarium of your fish.

Asking questions and defining problems. Students identify the task they have to carry out. Ask questions and try to identify them Example Where does the fish live? describe the fish charasteristics, Is it apreciaed in gastronomy? ...

2. Planning and carrying out investigations, and document project activities

3. Implement; create the blipp and share your blip with other students in your class with all your blipps make a Shoal

4. Communicate the results. using the blipp

From the beguining document the activities they have done and the provide these documents to the teacher.

Students do an exhibition with all blipps. Other students can visit the exhibition using a pohone or iPad

The teacher provides a Rubrica to students also do assessment.

The teacher will use an observation sheet and a registration form to asses students

Project rubrica				
Student; Project:	1	2	3	4
Defining the problem. Ask questions that				
arrise from examining modles to clatify or				
seek				
information.				
Planning and carrying out investigations.				
Plan an investigation individually and				
collaboratively, and in the design: identify				
independent and dependent variables and				
controls, what tools are needed to do the				
gathering, how measurements will be				
recorded, and how many data are needed to				
support a claim.				

Conduct an investigation and/or evaluate		
and/or revise the experimental design to		
produce data to serve as the basis for		
evidence that meet the goals of the		
investigation		
Construct a scientific explanation based on		
valid and reliable evidence obtained from		
sources (including the students' own		
experiments) and the assumption that		
theories and laws that describe the natural		
world operate today.		
Apply scientific reasoning to show why the		
data or evidence is adequate for the		
explanation or conclusion.		
Design, evaluate, and/or refine a solution to		
a complex real-world problem, based on		
scientific knowledge, student-generated		
sources of evidence, prioritized criteria, and		
tradeoff considerations.		
Compare and evaluate competing		
arguments or design solutions in light of		
currently accepted explanations, new		
evidence, limitations,		
Obtaining, evaluating, and communicating		
information.		

Communicate scientific and technical		
information about a proposed boat, tools,		
process, system) in writing and through oral		
presentations		
Communicate scientific and technical		
information or ideas using blippar (in		
multiple formats, including orally,		
graphically, textually, and mathematically.		

Teacher's observation sheet

Explaining Phenomena or Designing Solutions	Explain the evidences	Evidence of Quality ?	Suggestions for improvement
:		 None Inadequate Adequate Extensive 	

Test Blipp

Review your Test Publish options

TESTCODES Change



Experience this using the Blippar app

Test Blipp

Review your Test Publish options





Experience this using the Blippar app

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