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SCIENCE 4 ALL



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Lesson Plan

Class: A and C	Grade: 8º	Time: 3 lessons (150 ')		
Teacher: Alexandra Fernandes		Date: 9/ 01/2017; 11/01/2017;		
		16/01/2017		
Country: Portugal Subject: Sciense				
Topic Area: Earth Sustainability (Ecosystems - Influence of light on animals)				
Aims:				
Inquiry skill focus				
By the end of this lesson students will be able to:				
Formulate the problem				
Develop hypothesis				
Plan investigations				
Form coherent arguments				
Work collaboratively				
Scientific reasoning and literacy				
 Scientific reasoning (identifying variables) 				
 Scientific literacy [Explain how light influences animals (rabbits)] 				
Aids ¹ :				
- Engaging situation				
 Rubric used for the assessment of students' skills 				
- Self-evaluation worksheet				
Pro	cedure:		Time	
Activity development according to Inquiry methodology (theoretical model 5 150 min				
E's: Engage - Explore - Explain - Extend - Evaluate).				
The use of research activities in the context of the classroom and their				
evaluation.				
Warm up/ review:				
Activity A: Planning a investigation				
Step 1: Students are invited to read about rabbit's coat (attachment 1)			5 min	
Step 2: The teacher asks questions to encourage the students to consider how5 min				
rabbit's coat changes.				

¹ Attach worksheets, Other material used, links to websites...

Step 3: Students first discuss their ideas in small groups, they need to formulate the problem, develop hypotheses, plan investigations)	20 min
Step 4: Teacher gives the result of the planning investigation and students have to formulate a conclusion and decide whether they respond to the problem and whether or not the hypothesis is true.	15 min
Activity B: Preparing a presentation [poster presentation]	
Step 1: Students do an illustrative poster of planned activity.	45 min
Activity C: Presentation	
Step 1: Each group elects a spokesman.	2 min
Step 2: The teacher moderates a debate about the planned investigations.	25 min
Step 3: Students reflect on what they have learned through carrying out the activity.	20 min

Homework: -----

Evaluation: Within the suggested learning and assessment sequence specific inquiry skills are emphasised for development and assessment. Note, that throughout the activities students will have opportunities to practice a range of inquiry skills not identified in the description.

Summary 1: Theoretical practical activity: change of coat of the rabbits (definition of problem and hypothesis, planning of experimental activity, presentation of results: preparation of poster).

Summary 2: Theoretical practical activity: change of coat of the rabbits (preparation of presentation - doing a poster).

Summary 3: Debate (Discussion of theoretical-practical activity: influence of abiotic factors on the change of coat of rabbits.) Evaluation