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# HawkRadon

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#### Abstract

In this project, the students decided to measure the values of radon in the water and in the air in different points of our city and, at the same time, warn people about the consequences of high values. We placed several detectors to measure the values of radon concentrations and concluded that some of the values were well above the reference values. The project was only possible due to the unconditional help of the city council of Pinhel, the LabExpoRad of Beira Interior University and the students that attended our school last year. We think that this work represents a school open to an open society.

#### **Keywords**

Community; detectors; environmental awareness; radioactivity; radon.





## Conferência OSOS

**Open Schools for Open Societies** Pavilhão do Conhecimento – Centro Ciência Viva 14 Fevereiro 2020

# HawkRadon

### Agrupamento de Escolas de Pinhel • Pinhel • Ana Paula Saraiva • 12ºA

This project was only possible due to the unconditional help of some institutions and the students that attended our school last year because they started this.

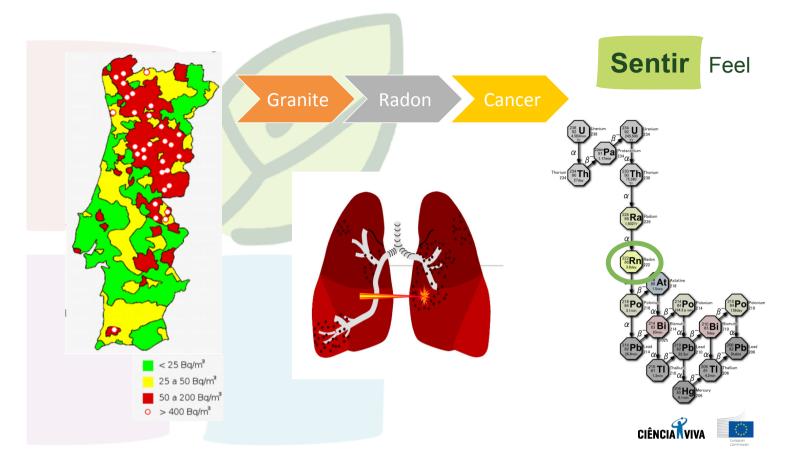


Agrupamento de Escolas de Pinhel









This problem and the dangers it presents are not very well-known. In order to realize how serious this problem is, we decided to acquire data on concentrations of radon in our area.

Our class carried on the work initiated by the students of Physics in the past year and together we placed several detectors to measure the values of the concentrations.

## Imaginar Imagine



Formulário de registo - Radão na Água e Ar					200 924	me of the worst : 00,6 Bq/m <i>1</i> 3 4,1 Bq/m <i>1</i> 3 7,3 Bq/m <i>1</i> 3	Criar	Create
A.1 Amostra	Calles de care de la							
Identificação Localização da amostra	Folha de amostra nº País	Destruct	Técnico					
Localização da amostra	Código Postal	Portugal	Distrito Cidade/ Vila					
Agrupamento de		kata da amostra		Pinnel		N N		
Escolas de Pinhel		Origem da água						
		o dispositivo de				The best v	way to face this	s problem is
		amostragem					-	-
						to use the	e information w	/e aathered
				2019				0
A.2 Medição da con	centração da ativio	lade de radã	io			to inform	the general	population
Águ	ia		Ar				•	
Nº amostra	A (Bq/L)		Nº detetor	A (Bq/m <sup>3</sup> )		about this	subject.	
1	32,8		1	411,7				
2	188,5		2	440,3				
3	217,0		3	232,6				
4	0,2		4	459,0		Reference	level.	
5	431,0		5	2000,6				
6	156,3 188,3		6	643,1			$\wedge$	
8	316.3		7	684,0		• 300Bq/m	1/3 in air;	
9	8,3		9	924,1 424,9		•	· ·	
10	4,6		10	917.3		• 500Bq/L	in water	
11	5,0		11	336,4		CCCEd/L		
12	5,3		12	257,1				
13	7,3		13	410,9				
14	4,6		14	211,7				
Comentários		Resultado	os preliminares. Assinatura	Set S			CIÊNCI	

Soon we will host an open door conference and we will invite everyone, so that we can educate them on this issue.





Partilhar

Share

