



LA DÉCOUVUERTE PROJECT EXAMPLES



Project example 1 - Creating a rescue plan a REGA rescue - 9e

La REGA est un exemple d'institution de recherche et de sauvetage de classe mondiale.

- Learn about the Swiss Search and Rescue Services
- Study the characteristics of the alps, the activities and the potential risks
- Visit REGA centre. Learn about their operations and their equipment



Create a search and rescue plan

After the emergency call...the maths

- Find the location of the caller using clues and bearings. Find the angle of a triangle from two points using trigonometry.
- Compare the probability of area with the probability of detection. Calculate the speed of the vehicle to maximise the probability of success.
- Figure out the time necessary for: getting the helicopter to the site and saving the people.
- What is the fuel consumption of the helicopter and will it have enough fuel to hover and return?

Lors de votre mission, vous aurez besoin de... compétences en géographie

Créer une boîte à outils pour votre mission



- Lire une carte
- Utiliser une boussole
- Comprendre le système de positionnement global
- Identifier les techniques alternatives sans GPS

Est-il préférable d'exercer ces compétences en classe ou à l'extérieur ?

Comment créer un scénario de recherche et de sauvetage ?

Maths objectives covered

Knowledge and use of the usual algebraic writing rules and conventions

Model natural, technical or social phenomena or mathematical situations by dealing with random situations using probability concepts

Definition of speed by measurement and calculation, and an intuitive approach to acceleration

Geography objectives covered

Explanation of the geophysical characteristics of the regions studied.

Identify elements at the origin of the risk.

Identify characteristics of the site

Identify the main characteristics of an area by studying different documents (maps, photos, texts, diagrams, etc.)

Identify relevant elements in statistical and cartographic documents.

Explain statistical and cartographic documents

Present the basic concepts of physical geography for the study of natural risks

Project example 2- Switzerland and the Plastics Challenge: Realities and Perspectives - 10e

Read the article on the 'Seacleaners' website to understand the risks Switzerland faces

Understand the local terrain and geographical features which make plastic pollution an issue.

Identify the risks (polluting factors geographically identified)

Contact the seacleaners organisation to make a presentation in school



To inform and persuade you need...language skills

- Carry out an analysis of plastic use in school by developing a questionnaire .
- Debate the benefits and drawbacks of plastic use.
- Imagine possible campaign ideas which could encourage students and adults in the school to use less plastic and consume less in general.
- Explore persuasive language and hyperbole

To find out if we are affected you need...fair testing

- Use a moment in the sailing sessions to collect water from both the shore and further into the lake:
- Test water for a range of parameters, such as:
 - pH
 - dissolved oxygen
 - nitrate ion concentration
 - phosphate ion concentration
 - turbidity
- Upload results to safewater.org



Create an information session for the school community in order to inform them about the research carried out. Persuade them to adopt more environmentally friendly practices.



Maths and Natural science objectives:

Hypothesising
fair testing
measures and calculations
Data representation
statistics
particles

Living science:

Respiration
nutrition
circulation sanguine
harmful factors
psychology of consumption

Language:

Text types (Questionnaire, speech, article)
Persuasive language

Project example 3- Explore the themes of Shakespeare's play

'Romeo and Juliet' and create an expression in chosen media - 11e

Looking into issues of adolescence, family, love, violence and loss.

- The 11e study the Shakespeare text of Romeo and Juliet.
- Students are exposed to retellings of the famous play in various media, books, films, articles.
- The themes are extrapolated from the text and students look at art inspired by these themes.



- A theme is chosen by each student, which they feel that the play has inspired, or with which they are currently needing to process or explore. The ideas will be used to inspire a piece of art.
- The students write a modern retelling of a scene of the play, transposing the issues into modern day.
- They create the set design for this scene
- A showcase is organised by the students to perform their scenes from the play and displaying their art dealing with a particular theme in the play.

History/social objectives

Elizabethan society, patriarchal societies, the dominance of men, the role of women, revenge, friendship, the role of parents, acting on impulse.

Literature objectives

understand and identify poetic conventions such as: sonnet structure, irony, comedy, symbolism, and imagery.

Design objectives:

- *Design, develop and produce a personal project*
 - *researching ideas (models, plans) to overcome the obstacles of banality, blockages and self-censorship*

