

新人教版 选择性必修 2
Unit 1: Science and Scientists---Video Time
导学案

一、单元学习主题

本单元主题是“科学和科学家”，呈现了一些有趣的科学体验、科学现象、研究发明，并探讨了未来的科学发展趋势，激发青少年对科学研究的兴趣和好奇心。

二、单元整体解读：

本单元主题语境是“科学与科学家”，科学就是要从新的角度审视已存在的问题，提出新的问题，发现新的可能，这些需要创造性的想象力，科学的根本动力和标志，就是要创新，从而理解创新与想象的意义。

三、内容分析：

本单元的视频“Why Is It Important to Explore?”生动地阐述了科学探索的重要性。本视频包含两部分内容：在第一部分，不同领域的科学家和科学工作者从不同角度阐述了科学探索的重要意义；第二部分呈现了不同领域、不同时间、不同地点、不同场景的科学探索实例，并展示了科学探索的不同方法和工具。这些实例有的激动人心，有的惊心动魄，有的温馨，有的恐怖……，但都很真实。

I. 【教学目标】 Learning Objectives:

By the end of this class, students will be able to:

1. To get information about why it is important to explore by watching a video.
2. To talk about your opinions on exploration.

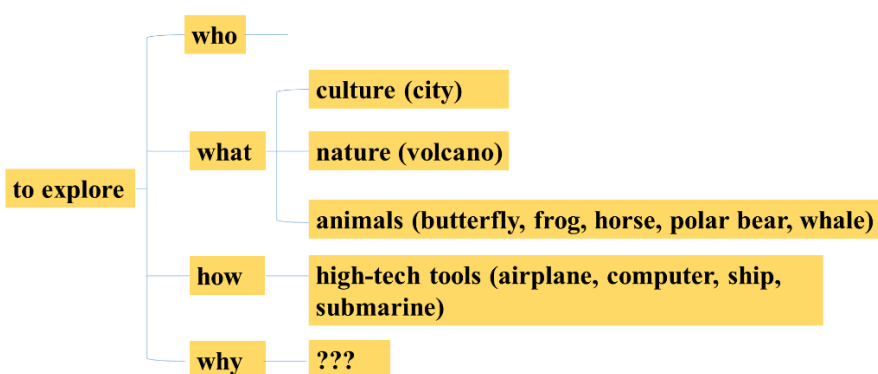
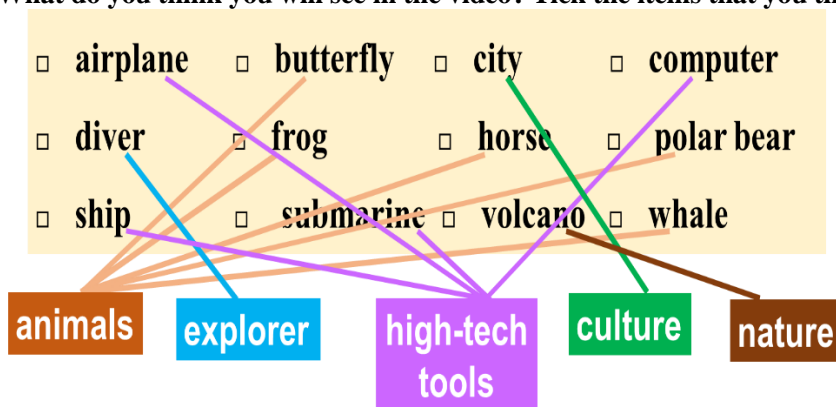
II. 【教材分析】:

The theme of this unit is about science and scientific research, while the theme of video time is about “Why is it Important to Explore”.

III. 【教学过程】 Teaching procedures:

Step 1: Before You Watch

What do you think you will see in the video? Tick the items that you think will be mentioned.



Step 2. While You Watch

Check your answers from Before You Watch.

- | | | | |
|---|---|---|--|
| <input type="checkbox"/> airplane | <input checked="" type="checkbox"/> butterfly | <input type="checkbox"/> city | <input checked="" type="checkbox"/> computer |
| <input checked="" type="checkbox"/> diver | <input checked="" type="checkbox"/> frog | <input type="checkbox"/> horse | <input checked="" type="checkbox"/> polar bear |
| <input type="checkbox"/> ship | <input checked="" type="checkbox"/> submarine | <input checked="" type="checkbox"/> volcano | <input checked="" type="checkbox"/> whale |

【设计意图】

引导学生观看视频，预测视频内容。

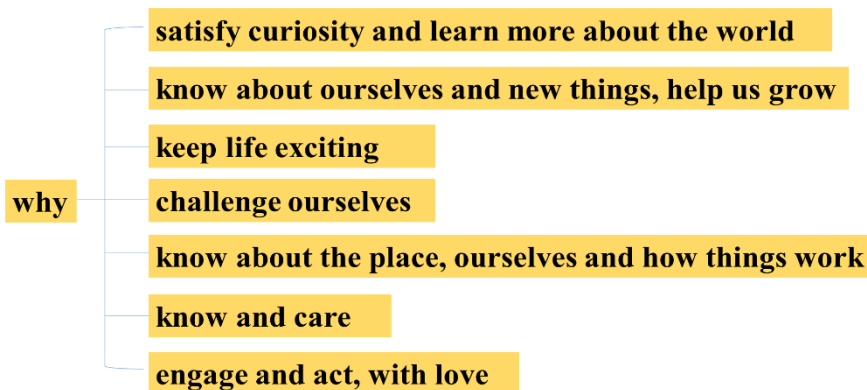
【核心素养提升点】

学习能力：对视频内容作出合理预测

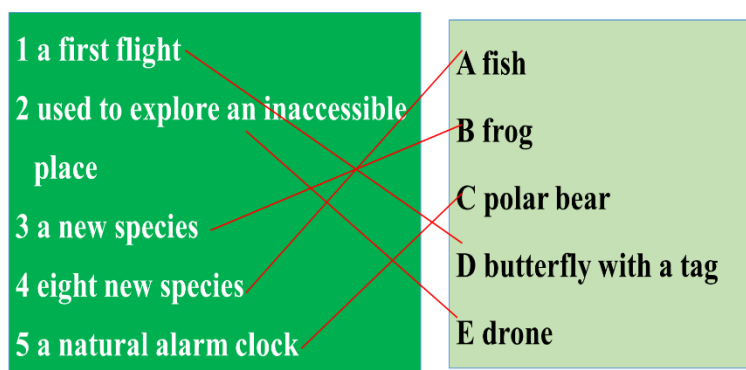
Step 3. While You Watch

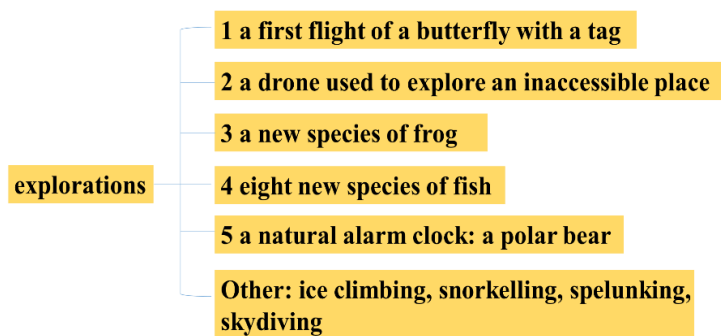
Complete these quotes with the words you hear in the video.

- 1 Emily Ainsworth: "It's part of human nature to _____ and to _____ about the world."
- 2 Juan Martinez: "It's where you find _____, where you find new things, _____."
- 3 Lee Berger: "We think we know _____, but we don't. We think we know _____, but we don't. We think we understand _____, but we don't."
- 4 Catherine Workman: "_____ what's out there, _____ what's out there."
- 5 Cory Richards: "And if we have more to care about, then we engage more fully _____ and more fully _____, and we act – you know – _____."



Match the descriptions on the left with the words on the right.





【设计意图】

播放三遍视频，了解视频语篇的结构，整合、构建视频内容的大体框架。

【核心素养提升点】

学习能力：迅速、准确获取相关信息的能力

Step 4. After You Watch

Discuss the following questions in groups.

- 1 Of the explorations in the video, which seems the most important? Which seems the interesting? Why?
- 2 Why is it important to explore, in your opinion?
- 3 How would you like to explore our world? Why?

【设计意图】

整体回顾视频内容，深化对细节信息的理解。

【核心素养提升点】

思维品质：锻炼学生自由表达自己观点的能力。

Step 5. Assignment:

Write a passage to express your ideas of “Why is it important to explore?”.

【板书设计 Blackboard Design】

Blackboard Design

Unit 5 First Aid	
Blackboard Design	Video Time- Why is it important to explore satisfy curiosity and learn more about the world know about ourselves and new things, help us grow keep life exciting challenge ourselves know about the place, ourselves and how things work know and care engage and act, with love