

Frog In The Pot - a 10th Grade Expedition Into Climate Change



Dear Parents,

We are excited to launch into one of Realms High School's capstone expeditions, "**Frog in the Pot**" for the third trimester beginning Monday, March 20th!

In this interdisciplinary Expedition, ***students examine how climate change affects both local and global communities.*** Through a study of chemistry and informative research and rhetoric, students will conduct action research to inform and influence their community and conduct action projects on our campus based on their studies.

In Literature and Composition 2, students will study elements of Rhetoric as it applies to the issue of climate change and global warming. Narrative, research and argument speaking, writing and discussions will guide the focus of the work students conduct. This work will culminate with students creating a short video presentation based on a narrative about nature and personal connection to climate along with research/argument writing providing a solution to a present day climate change problem.

In Chemistry, students will dig into matter and its interactions to gain a deeper understanding of science behind replicable small scale solutions to climate. This will include the study of how types of matter affect the flow of energy on our planet. This lab-based course focuses on the effects of molecular structure on the absorption of light and sound energy in our environment and the chemical reactions that affect the composition of our atmosphere.

A key feature of this Expedition is a series of fieldwork days, both full day and half day, in the first 5 weeks of the trimester!

The fieldwork is designed to bring students to a wide variety of landscapes/naturescapes to gather data related to climate and the natural world throughout Central Oregon. Students will use their data, observations and experiences to determine small, yet impactful ways our school campus can reduce its carbon footprint. As a culminating and final project, students will create a proposal, and implement a plan for improving a space on campus. The focus and purpose will be to bring green outdoor spaces to life here at Realms High school.

There will be four days of immersive fieldwork where students will be collecting data to interpret back in the classroom and connecting with community experts who practice the concepts our students are learning as a profession. The following are the dates and locations of our fieldwork for this expedition:

- 4/4/23 - Canal Row Park
- 4/11/23 - Dutchman Flat (Mt. Bachelor) - snowshoe day!!
- 4/18/23 - Shevlin Park
- 4/25/23 - Pilot Butte Middle School Campus

[Please use this link to sign the permission slip for this fieldwork](#)

REALMS will provide all of the activity specific equipment, but students are expected to come to school prepared with the following:

- Appropriate clothing for being outdoors, including extra layers for inclement weather
- Gloves, hat, warm jacket
- **Winter boots if at all possible for Dutchman Flat Day (snowshoes provided!!)**
- Backpack
- Lunch
- Water bottle
- A charged Ipad

REALMS can help supply any and all of the required equipment, and we even have access to winter clothing that can be kept by students! Students should check in with Caleb to borrow anything they need, but should do so before the morning of fieldwork.

We look forward to the thoughtful and challenging work our students will be engaging in together this term!

Sincerely,

Heidi Dixon, Chemistry
Danny Diamond, Chemistry
Michelle Hanford, Lit. & Comp 2
Caleb Campbell, Fieldwork