

chronolog Explore map For organizers Log in Get a chronolog

Timelapses of Earth powered by community science.

Used by organizations worldwide to monitor the environment and inspire stewardship.

Explore chronologs → Get a chronolog

Chronolog Inspired Project

For highschool students, enrolled in a physics class, with a small introduction on how climate change happens and how it affects the world.

Relevance:

By setting up a Chronolog-inspired post, it'll be at a site that is close by to the students (on their school site at some nature-based or heavy traffic area). I would open up the class by talking about the importance of tracking and recording data and show the chronolog.io website as an introduction.

This would be a good way of using real data to introduce how different phenomena affect our natural environment, like how does sunlight affect the pattern of dried grass on the field or how does rainfall affect the mud accumulation on the ground?

This would be utilized in a unit about weather/climate change.

NGSS 3D LEARNING

SEP

Planning and
Creating
Investigations

The students are going to think through what things they'll want to notice and observe on throughout the project.

CCC

Cause and Effect

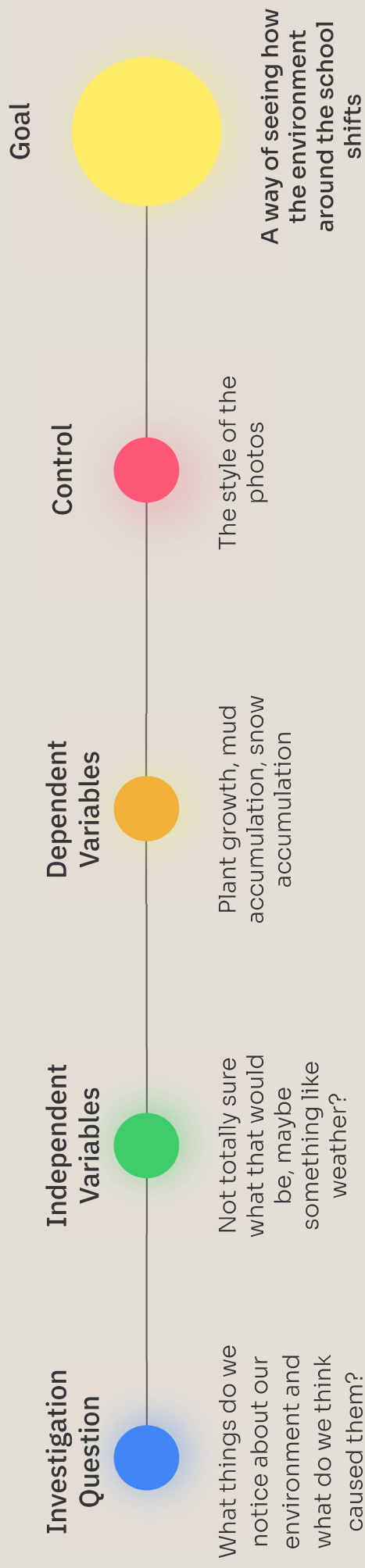
We're going to investigate the natural causes that will affect the environment and how those things can be related

DCI
Life

Science/Earth
and Space
Science

We're looking at ecosystems around the school site and looking and how humanity has shifted the way they interact with their environment.

Investigation Question and Variables



Project Steps

Step 1

Install the photo frame

Step 2

Write out detailed steps to show how to take the photo and where to send it

Step 3

Compile all the photos and data and start observations on it

Step 4

Figure out what investigation will be done

Step 5

Collect data and make observations

Goal

Investigations!



Sample Table for Note Collection

Observation Objects	Observations	Date/Time

Commentary

I find a lot of challenges coming from the main wondering about if students/colleagues are going to actually contribute to the project. It requires a lot of participation to create good sets of data. I think that this idea of starting a chronolog project will be good at introducing the idea of something that focuses on the student and their immediate environment which will be a good motivation to actually participate. (National Academies of Science, Engineering, and Medicine (2018)) It then carries some concern if the students are only participating for a grade. The nature of science really carries through because this focuses on things that you can observe in the natural world and is something that changes throughout time. Like the Bozeman video, the nature of science is built on things that are observable and curiosity sparking.

Reference

<https://www.chronolog.io/>

National Academies of Sciences, Engineering, and Medicine. 2018. *Learning*

Through Citizen Science: Enhancing Opportunities by Design

Links to an external site.

. Washington, DC: The National Academies Press.

Bozeman Science (2016). The nature of science [Video]. YouTube



Thank you