

School Board Presentation:
September 16, 2020
Debbie Lenz, TSA for K-8 Science

Elementary Science during Distance Learning 2020

When/How Science Class Happens

- ▶ Science (and other “enrichment” classes like PE, library, garden, music, art) are live 45-minute classes in 19 different slots throughout the week
- ▶ Home classroom teachers provide the enrichment teachers’ Zoom links and inform their students of their daily enrichment schedule
- ▶ SRTs usually see each class for 1 period/week

2nd Grade Science Class – Ms. Paske @ Washington

The screenshot shows a Zoom meeting window with a Google Slides presentation titled "Notice and Wonder (2,3,4)". The presentation features a video of a small, translucent, worm-like creature. To the right of the video, there are three text boxes for student input:

- I Notice... (observation)**
- I wonder... (What else do I want to know?)**
- My hypothesis is ... (connections)**

A sidebar on the right lists messages from various participants, including "From Eve to Everyone: good", "From Abby, Maren and Corinne to Everyone: tube in body", "From Dylan L to Everyone: a human organ", "From Jesse to Everyone: I wonder if it's a spider web", "From Lorraine to Everyone: I wonder if it's a lung skulking", and "From AMOS LARSEN to Everyone: I think it is verry small". At the bottom right, a small video feed shows a participant named "Abigail Paske". The Zoom interface includes a top bar with "zoom.us Meeting View Edit Window Help" and a bottom bar with "Participants Chat Screen Share Window Notifications" and a "Leave" button.

Our adjusted 20/21 scope & sequence for K-5 science

TIMELINE	CCC (NGSS)	THEME
Sep	Interconnectedness	Being Scientists & Engineers
Oct	Patterns	Weather & Climate
Nov/Dec	Stability & Change	Landforms
Jan	Scale, Proportion & Quantity	Measurement: Micro to Macro
Feb	Cause & Effect	Substances
Mar	Energy & Matter	Simple Machines & Toys
Apr	Structure & Function	Living Organisms
May	Systems & Models	Life Cycles

Our adjusted 20/21 scope & sequence for K-5 science

How each unit is organized:

- ▶ Each unit lasts 5 weeks
- ▶ There is a topic for each week
- ▶ Various resources are suggested for each topic relevant to the different grade bands

Unit #2	Weather & Climate
Week 1	What is weather vs. climate?
Week 2	The water cycle
Week 3	Temperature & heat transfer
Week 4	Clouds (K-3) Extreme Weather (4-5)
Week 5	Engineering: Build a Weather Monitoring Tool

SRT Meeting: Successes You Are Having So Far



CHERENE FILLIGIM-SELK
BAM & Cragmont Science

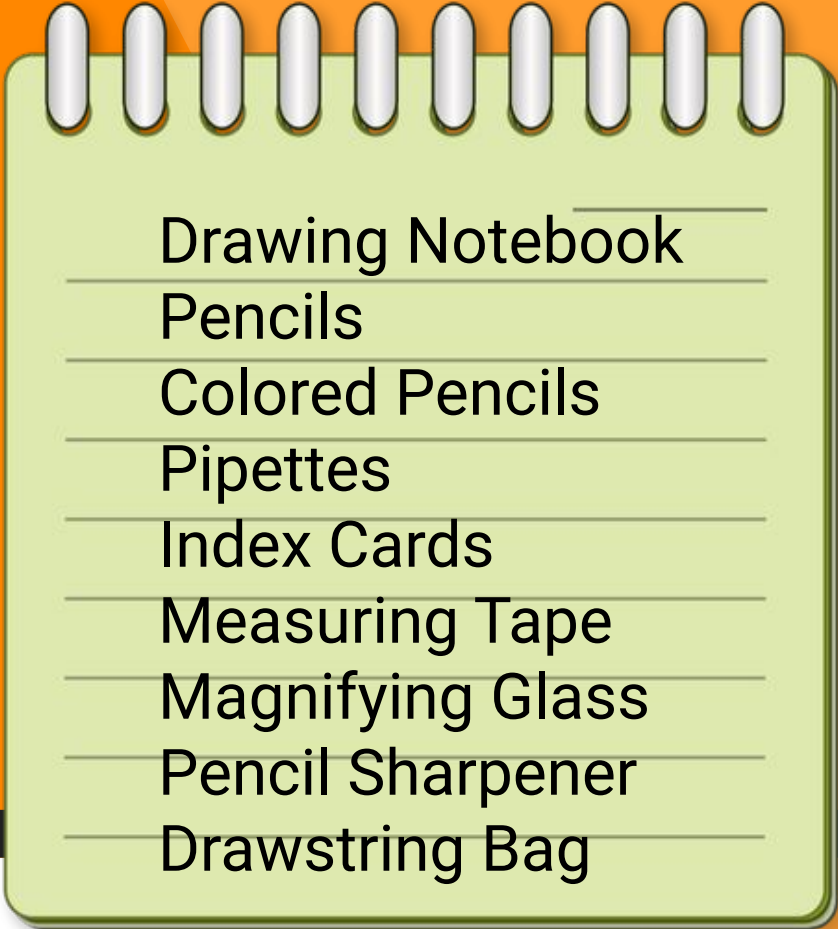


Samples of Resources Used for Teaching Science

- ▶ **Read-Alouds:** Ada Twist Scientist
- ▶ **BrainPop:** What is Temperature?
- ▶ **Science Video:** Why do you float in the Dead Sea?
- ▶ **Data Collection Activity:** Weather Recording Sheet
- ▶ **Engineering Challenge:** Design a Face Mask
- ▶ **Flocabulary:** The Water Cycle
- ▶ **Hands-On Activity:** Make it Rain
- ▶ **Live Demos:** Cloud in a Bottle
- ▶ **FOSSweb:** multimedia & eBooks
- ▶ **Mystery Science:** Why don't trees blow down in the wind?

CRS Science Materials Grant

Supplies for every
4th & 5th grader
in the district



Drawing Notebook

Pencils

Colored Pencils

Pipettes

Index Cards

Measuring Tape

Magnifying Glass

Pencil Sharpener

Drawstring Bag

5th Grade Science Class Video – Ms. Hill @ Malcolm X



Challenges Faced in Science Classes

For Science Teachers:

- ▶ **Difficult to do hands-on science (equitably)**
- ▶ Lesson continuity can be difficult from week to week with varying attendance
- ▶ Having to navigate many other teacher's SeeSaw or Google Classrooms to post work

For All Teachers:

- ▶ **Technology & internet quality really makes a difference for both teachers & students**
- ▶ Hard for the teacher to provide tech help to students in short class periods & still cover content