

LEVERAGE STUDENT CHOICE & LOCAL DATASETS TO EXPLORE MICROPLASTICS WORKSHOP

FRIDAY, NOVEMBER 8TH, 2024 @ 2:30PM - 3:45PM PST

Contact Kristin:

kristin@dataspire.org

609-212-3351

<https://dataspire.org>

@kristinhunterthomson ([LinkedIn](#))

@dataspirelearning ([YouTube](#))

[Sign up to join the mailing list](#)

Contact Tracy: tostrom@berkeley.edu

Leverage Student Choice & Local Datasets to Explore Microplastics

Want to increase student engagement with a local issue? Looking for ways to authentically integrate data into your science content? Come explore classroom-ready and engaging protocols and activities to build science and data skills in our learners, while exploring microplastics!

Please complete the Workshop Evaluation: **RATE in the App**

***Except where otherwise noted, all content and material here is
Copyright 2024 by Dataspire and Kristin Hunter-Thomson ***

All are encouraged to:

- Participate fully, openly, and inclusively for yourself and others
- Listen to understand
- WAIT – Why am I talking; Why aren't I talking
- Lean into your learning edge, it's OK to be raggedy
- Acknowledge and respect differences and similarities
- Speak from personal experience – use “I” statements
- Take risks, ask questions, be courageous
- Have some fun with this

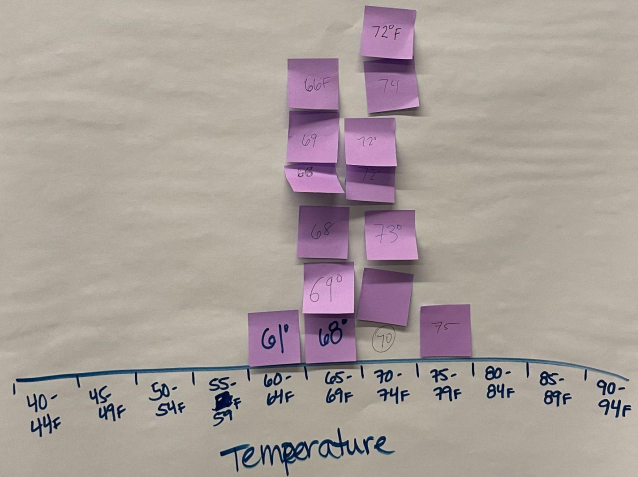
WORKSHOP RESOURCES: ([SLIDEDECK](#))

1. **Co-construct graphs:** Add your responses on the flip charts around the room

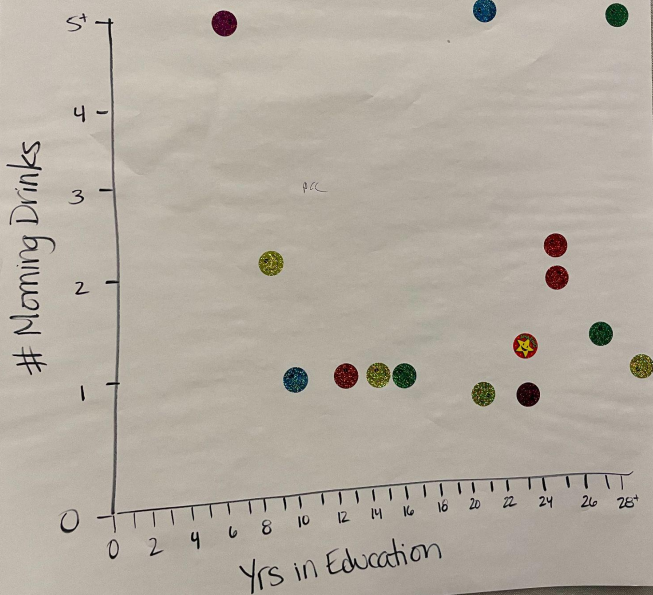
How comfortable are you with teaching data skills?



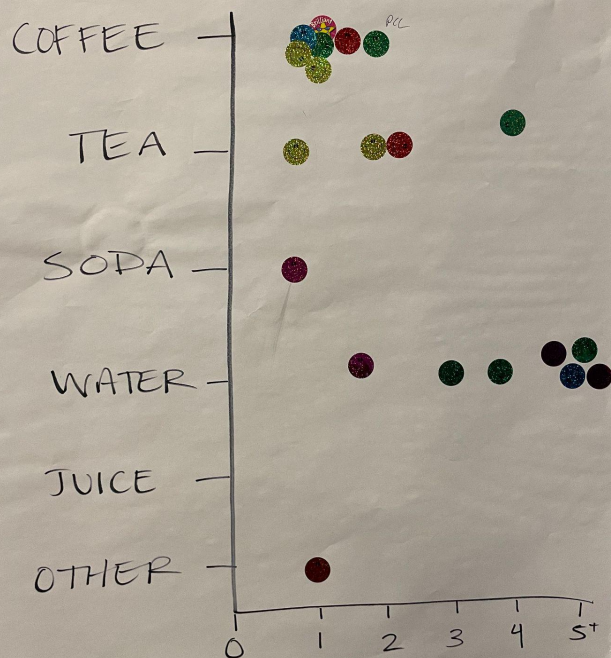
What is the predicted the max. air temperature today in your home town?

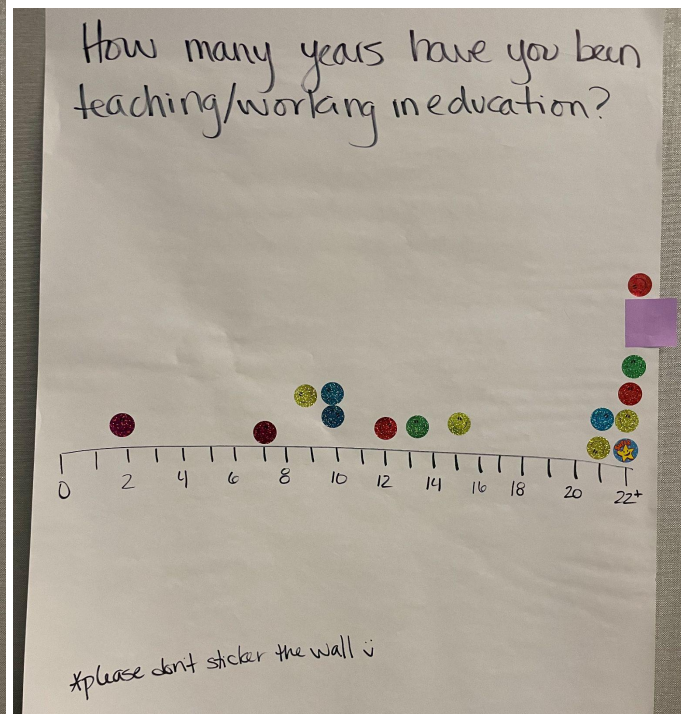
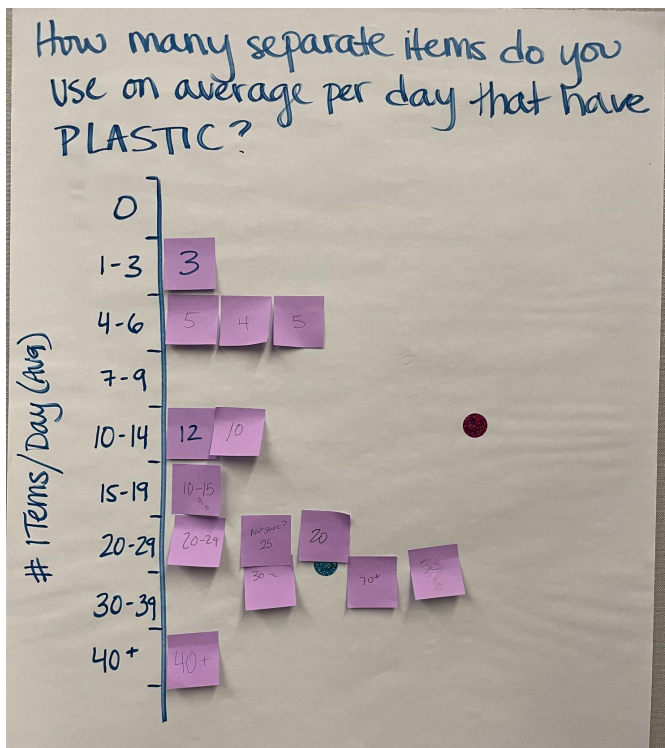


What is your relationship between typical number of morning drinks consumed and number of years working in education?



How many cups of your preferred morning drinks have you had today?





2. **Sink or Float Lab Activity:** Collect data with your table group for the different types of plastic
3. **Explore more Microplastics Data dataset:** Make visualizations of the data (on paper or in [CODAP](#)) to explore “How do microplastics behave in water?”
4. **Classroom Planning:** What is a takeaway for you from this discussion?
 - a. Plan next steps for your curriculum
 - b. Post a next step on the flip chart
 - i. Use different data visualizations
 - ii. Use my recent Rover project data to see correlations
 - iii. See plastics under microscope
 - iv. Ways plastic can spread (wind, dryer sheets, collect different plastic types) from home, desert, street side
 - v. Explore data program
 - vi. Teach other teachers how to use these programs + integrate into the classroom. I think these free + easy to use resources will be really great visuals for our students.
 - vii. Figure where this will fit in 7th integrated
 - viii. Reach out for 5 Day Lesson
 - ix. Raw data → use visualization tool

- x. Explore CODAP of other software for a tide pooling data collection activity I have
- xi. Love all the available programs. I would love to give students an opportunity to organize + present data in their own way as well!

POST-WORKSHOP RESOURCES:

More Opportunities to Access Strategies, Tips, & Tricks...

1. Access our weekly short video clips of advice, strategies, and suggestions in our Data Bite series: <https://www.youtube.com/@dataspirelearning> (Data Bites playlist)
2. [Sign up to join the Dataspire mailing list](#) of upcoming workshop and curriculum opportunities

Other Microplastics & CODAP Resources

- Sink or Float lab:
<https://docs.google.com/document/d/10rX1zmogaD2JKLeZd4pPQkkqa2ur35sP/edit>
(*remember, email Tracy—tostrom@berkeley.edu—if you are interested in the 5 Day Packing Guide)
- We played around in [CODAP](#). If you are interested, here are some orientation, tutorial, and dataset by subject area resources if you would like to explore more:
 - CODAP Basics: <https://codap.concord.org/get-started/codap-basics/>
 - CODAP starter datasets: [Getting Started in CODAP, Part 1](#) & [Getting Started in CODAP, Part 2](#)
 - Datasets by subject area: <https://concord-consortium.github.io/codap-data/>
 - Tutorials: <https://codap.concord.org/for-educators/>

Other Data Literacy Resources

- Check out more data teaching resources at: <https://dataspire.org/data-resources>
- Book ideas re: various data literacy, science education, & pedagogy topics - <https://dataspire.org/data-and-science-literacy-book-ideas>
- NSTA's Science Scope Interdisciplinary Ideas "Data Literacy 101" articles: <https://dataspire.org/data-literacy-101-articles>
- <https://www.verspecialgames.com/> - Order your own copy of Charty Party (or any other of the great games they make) with a **15% discount using code: DATASPIRE**

Dataspire Education & Evaluation, LLC provides **data literacy and science education** information and education. Our services are not financial, tax, investment, or legal advice. We do not provide investment recommendations, investment counseling, accounting services, tax, or legal advice, and nothing in our content or services is intended as such. **Kristin Hunter-Thomson and anyone else on staff at Dataspire Education & Evaluation, LLC** is assisting you only in the capacity as an **educational coach**, not as a licensed business professional. Nothing in our content or services is intended to be a substitute for consultation or other credentialing, financial, tax, investment, or legal advice from a licensed business professional who can review and advise you on your specific situation. Anyone choosing to implement any information in

our content or services should obtain prior clearance from a licensed teaching professional to determine that the information is appropriate and useful for them. Do not disregard any credentialing, financial, tax, investment, or legal advice or delay seeking professional credentialing, financial, tax, investment, or legal advice based on information in our content or services. Coaching is in no way to be construed as credentialing, financial, tax, investment, or legal advice. Nothing in our content or services is a guarantee or promise of future earnings. We do not guarantee that you will obtain any results or earn any money using our content or services. **Dataspire Education & Evaluation, LLC** owns all copyrights to the materials presented here unless otherwise noted.