

Virtual E&M Physics Teacher Workshop
DRAFT – with Bill’s revisions

January 22, 2022

Joey // James // Bill // Bryn // Jeff

10 AM - Introductions

Static Electricity Demonstrations

James: Positive vs. Negative Charge // Lemon Battery - 10 min

Bill Demonstrates 1 – Electrophorus - 10 min

Bill Explains: Triboelectric series and rods 10 min

Bryn – Electroscope Demonstrations - 10 min

Joey – Static Electricity on Strings - 10 min

11 AM

Jeff – Intro to Circuit Fundamentals / Labs Lesson 15 min

Bryn - Squishy Circuits 15 min

Joey: Circuits / Magnetism and the NGSS – 15 min

11:45

Lunch // BREAK TIME // Free Speaking

12:15

James (and Jeff?): Video Resources for E&M 10 min

James - Virtual Physics Labs Websites on E&M 20 min

Bryn - Favorite Websites and other Resources 10 min

1:00 pm

Jeff – Magnets Demos: Lorentz Force // Jumping Wire 10 min

James - Magnets Demo: Compass // Magnet Games 10 min

Shawn – Homopolar Motor 20 min

Bill – Magnetic Induction Including motor & Bulb 20 min

2pm Prizes & Closure