

# CSAAPT Meeting at James Madison University

## April 1 2023

4:00 pm

Short talk and hand-out

Free for high school physics teachers

Hand out demo and Lab activity materials and kits

- 1) 6 E/M Toolbox kit of 75 items or more - see list below
- 2) 15 Electronics Breadboard kits
- 3) 6 Lightbulb circuit sets
- 4) 7 Electroscope kits
- 5) 2 Optical bench sets
- 6) Over 100 additional individual electric, magnetic, and optical items.

Many duplicate items – see item list and photos below

Name \_\_\_\_\_

Email \_\_\_\_\_

School Name \_\_\_\_\_

School Address \_\_\_\_\_

Grade Level you teach \_\_\_\_\_

Choose your top 4 priorities 1 ,2 ,3, and 4 with 1 being the highest. Write number in circle.

- ☐ E/M Toolbox kit of 75 items - 6 available
- ☐ Electronics Breadboard kits - 15 available
- ☐ Lightbulb circuit sets - 6 available
- ☐ Electroscope kits - 7 available
- ☐ Optical bench sets - 2 available
- ☐ Write in - Choose from list of items

Please fill out this form and bring it with you and turn it in to the registration desk by noon  
Because of limited supplies you may not get your top priority item. The plan is that everyone gets  
at least their first or second choice. You may also choose items from the list of individual items if  
it is not part of one of the kits.

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1) Available 6 E/M Toolbox kit of 75 items or more - see list of items on next slide



12" ruler	1	compasses	2	
16 gauge copper wire	2	electroscope tubes	4	
3.5mm audio plug	1	enameled wire	4.7	m
3/32 rubber tube	1	enameled wire	1	m
6" ruler	1	enameled wire	1	m
9v battery snap	2	extra pin	1	
acrylic rod	2	faraday cage	1	
alligator wires bundle of 10	1	firefly	1	
resistor 33Ω	2	handheld vdg	1	
resistor 100Ω	3	iron rod	1	
resistor 150Ω	2	jumper wires	1	box
resistor 270Ω	2	light bulb holders	3	
resistor 1kΩ	2	light bulbs	3	
resistor 10kΩ	2	motors	2	
resistor 100kΩ	2	multimeter	1	
capacitor 10uF	2	paper clips	1	box
capacitor 47uF	2	paper confetti	1	bag
capacitor 220uF	1	protractor	1	
LED red	2	scotch tape	1	
LED green	2	silk	2	
LED bicolor	1	small bar magnets	4	
transistor npn	1	spinner	1	
chip lm 386	1	teflon rod	2	
6" bar magnet	1	thick neodymium magnet	1	
battery holders	2	thick rubber band	2	
bith balls	2	thin neodymium magnets	2	
breadboard	1	thin rubber band	2	
clear cups	2	thin wodden stick / coffee stirrer	2	
		transformer	1	
		washers	2	
		wire cutter	1	
		wodden block w/ acrylic rod	1	
		metal ball	1	
		wodden rod	1	
		wooden block w/ groove	1	
		tool box	1	



## 2) Available 15 Electronics Breadboard kits

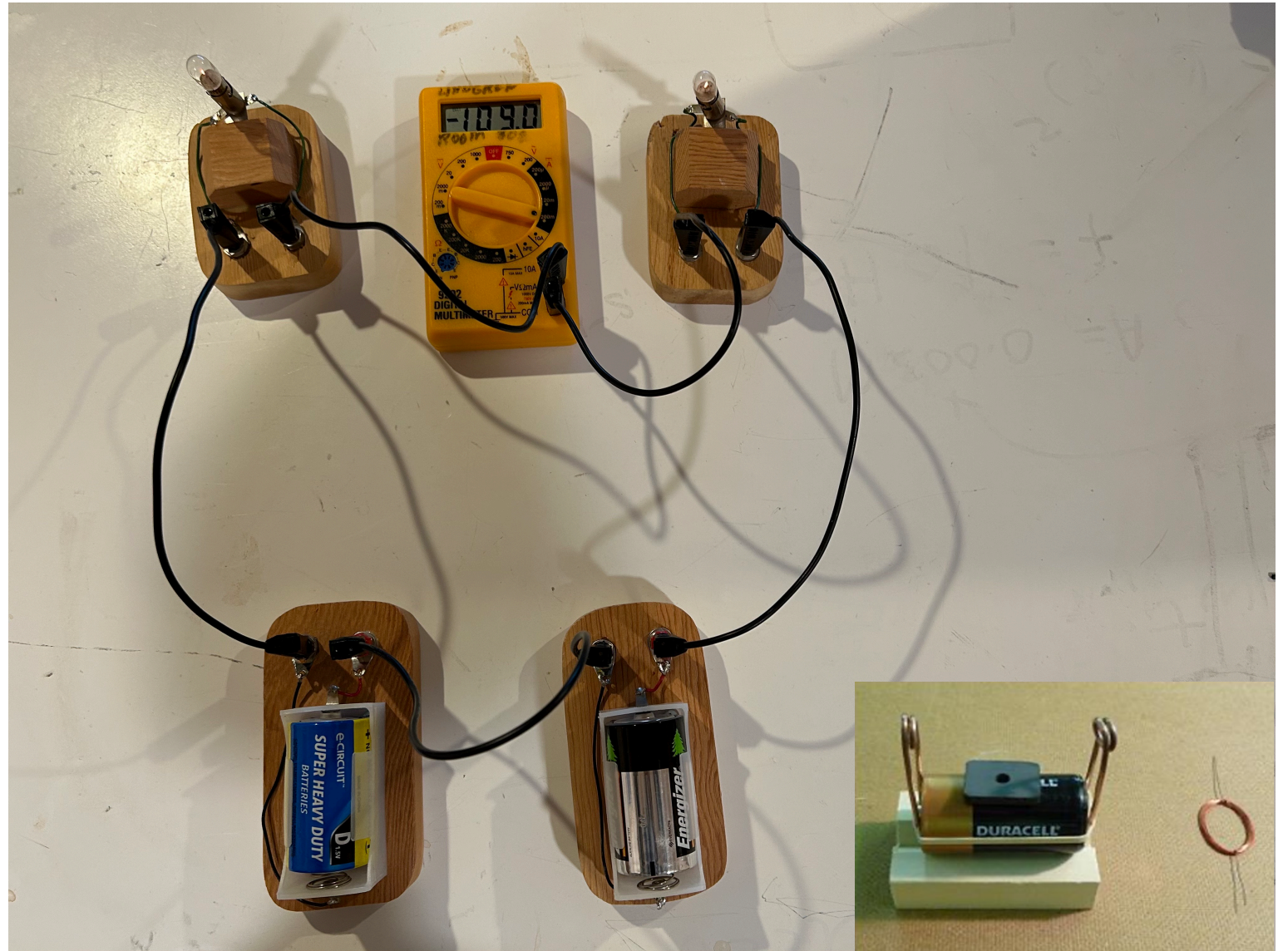
- 1 bread board
- 1 bag of resistors, capacitors, LEDs, and IC 386
- 3 lightbulbs and holders
- 2 D cell battery holders
- 1 box of jumper wires
- 1 set of alligator clipped wires
- 2 motor/generators
- 1 transformer
- 2 battery snaps
- 1 wire stripper





### 3) Available 6 Lightbulb circuit sets

2 lightbulb holders and extra  
bulbs  
2 battery holders  
1 multimeter  
6 plug in wires to make a  
series circuit





## 4) Available 7 Electroscope Kits

### Contents

- 1 Electroscope as you see it
- 1 Teflon rod
- 1 silk or rabbit fur





## 5) Available 2 Optical bench sets

### Contents

100 cm track with scale

Adjustable support legs

slide blocks

Light source, 120 volt desk lamp.

Double convex lens  $d=40\text{ mm}$ ,  $f=100\text{ mm}$

Double convex lens  $d=30\text{ mm}$ ,  $f=50\text{ mm}$

Plano convex lens  $d=30\text{ mm}$ ,  $f=-75\text{ mm}$

White screen  $100\text{ mm} \times 80\text{ mm}$

Ground glass screen  $100\text{ mm} \times 80\text{ mm}$

5 Insert support poles for lenses and screens



# List of available individual items - See photo below

- 7 650 nm laser pointers
- 7 650 nm laser pointer kits
- 38 3" x 5 " mirrors
- 11 acrylic prisms
- 3 120 volt desk lamps
- 15 boxes of 3.8 Volt light bulbs ( 3 in a box)
- 11 lightbulb holders
- 28 volt transformers
- several bags of assorted resistors, capacitors and LEDS
- 1 slinky
- 1 mirascope
- 1 fire syringe
- 1 handbolier
- 7 Nail and enamel wire for electromagnet
- 8 solar dancer
- 7 poppers
- 6 dippy ducks
- 18 digital thermometers
- 16 3 inch bar magnets
- Roll of magnetic tape
- 10 rectangular magnets with hole
- Few other magnets
- 8 samsung cameras (It says they are waterproof)
- 8 mini tripods



15 breadboard kits



Roll of magnetic tape



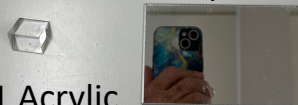
36 magnet sqs.



7 Red Laser pointer kit



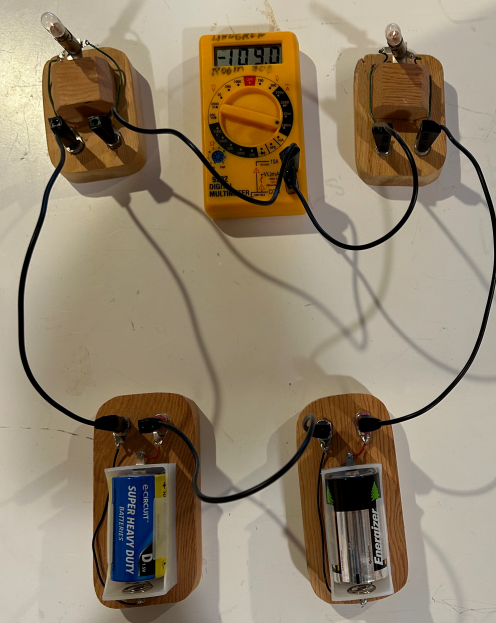
7 Red Laser pointers



11 Acrylic prisms



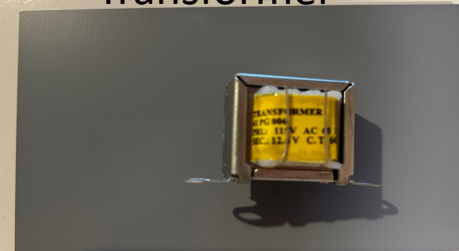
6 light bulb circuit sets



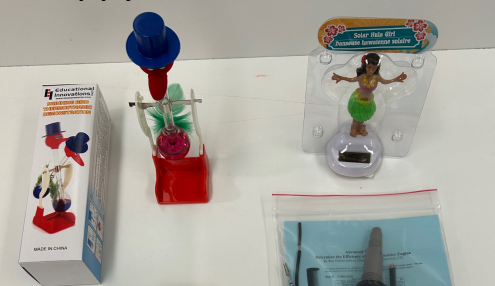
2 optic bench kits



Transformer



6 Dippy Duck 7 Solar Dance



8 Poppers



8 Samsung cameras



1 slinky



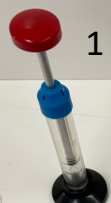
34 Motors



8 tripods



1 Fire syringe



1 hand boiler

