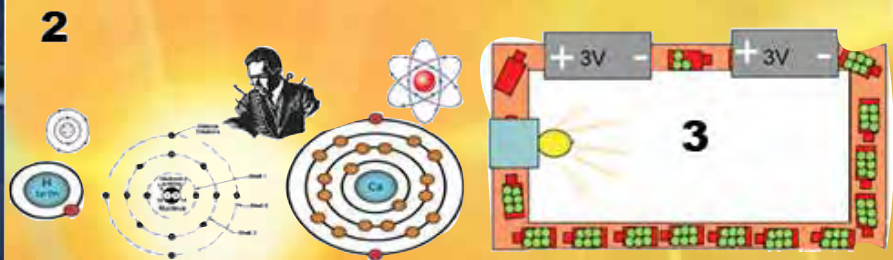
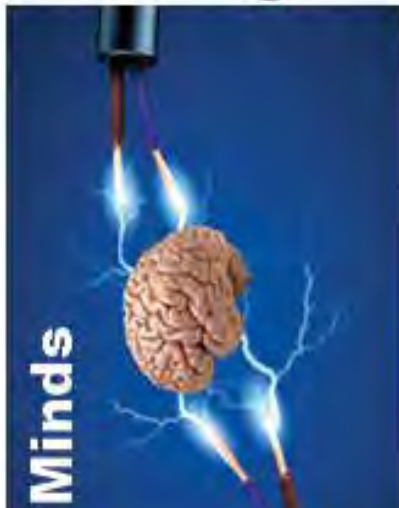


# 7) Electricity

Electricity, literally, powers our world. From plug-in appliances to battery chargers that enable the on buttons of our electronic devices.



# a) Read - ONE PAGER - Overview



**2- Model**



**5- Modern**



**6- Motor**



# Electricity - 7 M's

## Lesson Plan

### PREP

- a) Read ONE PAGER.
- b) Read Lesson Plans
- c) Watch the Video
- d) Read Teacher Guide.  
Prepare class presentation
- e) Copy pages for the Students.

### PRESENTATION

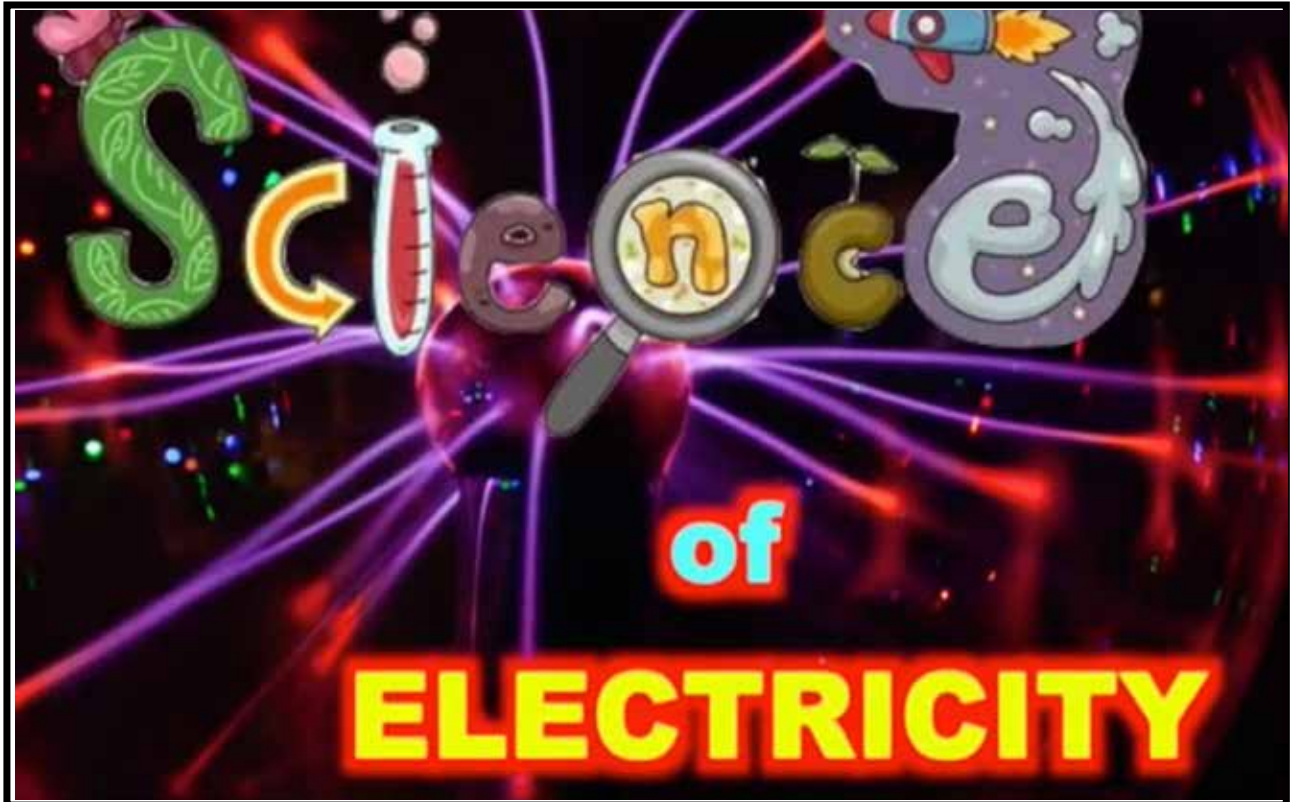
- f) Present overview to the Students  
including ONE PAGER and Hand-outs.

### POST

- g) Students do "Try This" assignments.
- k) Do "scI-Q Summary -Integrate Science".



b) Watch Video  
**Science of Electricity with 7 M's**



**See the eBook, "Science Enlights"  
for the Script of this Video.**

# Electricity Science

We see electricity in nature. Sky e-Bits travel to earth and turn into L-Bits of Lightning and Sound Waves of thunder along the way.

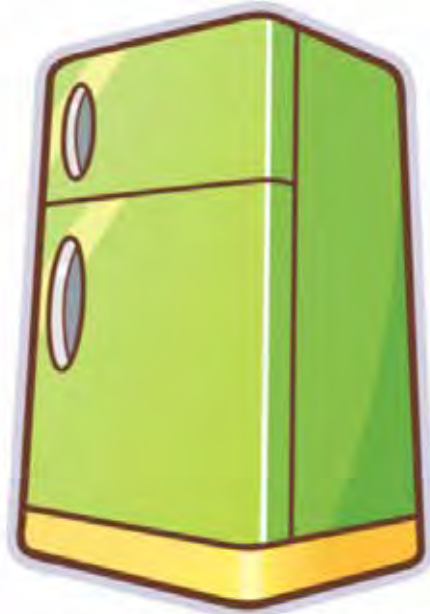


# Electricity Science

At home, our outlet, AC electricity powers motors.



washing machine



refrigerator



hair dryer



vacuum cleaner



electric fan

# Electricity Science



Electricity is the Oomph in our electronics. Input AC e-Bits change into DC e-Bits to power our digital devices.



**Oomph!**



# TRY THIS! - Video

## Question?

Search the Internet for examples of electricity. Cut and paste below.



## Conclusion, Electricity- with 7 M's

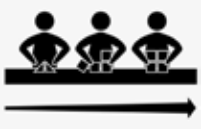
1) Human Minds, notice and discover electricity. We Model its causes.

2) Our muscles and electric Motors, Move because of electricity.

3) People learn how to Make DC electricity with batteries and AC electricity in outlets.

4) Our Modern, digital devices use electricity. It is why they are called electronics.

5) It is in Me also. My heart beats, senses sense and mind thinks with electricity!



## scI-Q Summary Electricity - with 7 M's

Batteries have steady, direct current (DC).  
Outlet electricity is alternating current (AC)  
which means the current flow changes direction over 50 times  
a second. AC outlet electricity charges our smartphone  
batteries. Our digital devices work with DC electrical  
e-Bits. Inside smartphones, DC electricity changes  
into AC electricity that make Radio Waves. Home satellite  
dishes also receive Radio Waves that are changed into  
e-Bits for our TVs. On our TVs, we watch movies.

