PhysicsLab-060A	Oscilloscope

1. Preparation

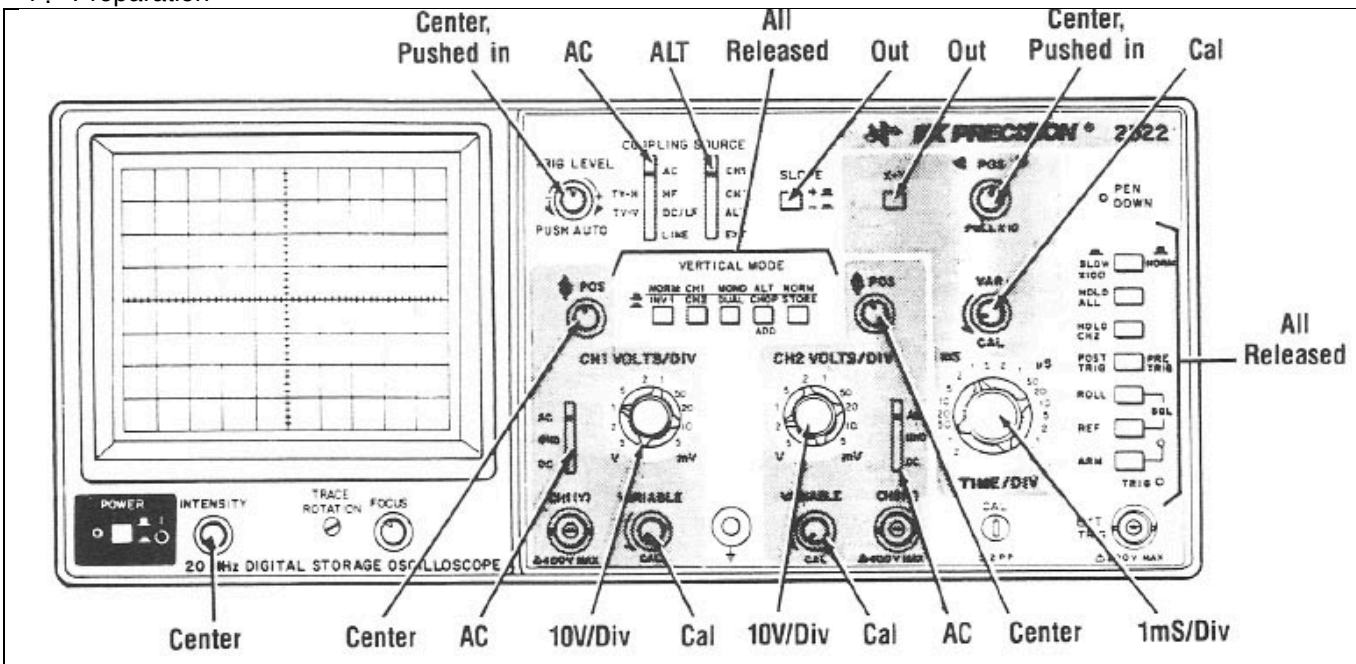
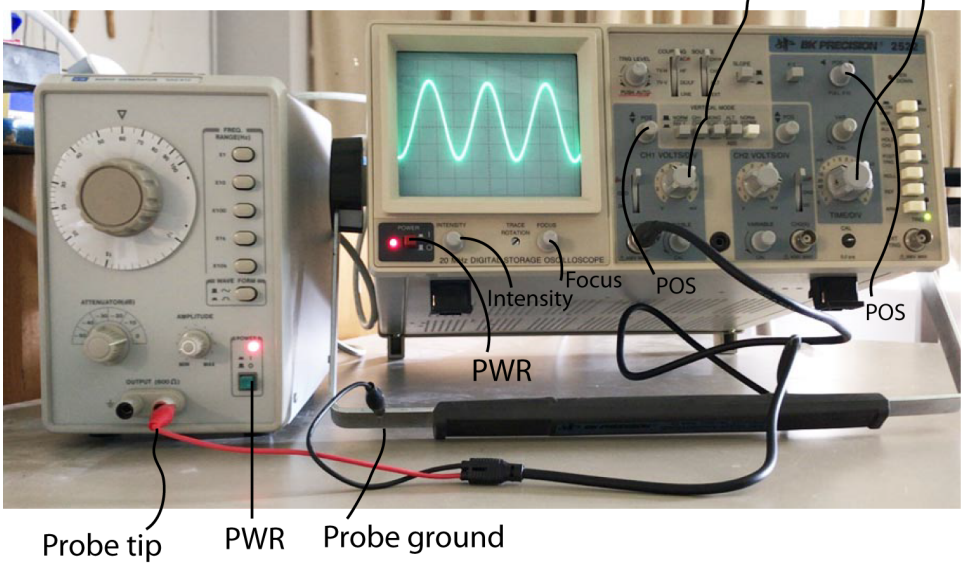


Fig. 1

2. Experiments

1) Alternated Current



(1) Oscilloscope, Audio Generator –PWR on
(2) Select frequency
, (ex. 120 Hz)
(3) Adjust
Intensity, Focus, POSx2
Voltage/DIV, Time/Div

(4) Measure
Voltage and Period

(5) Calculate Frequency

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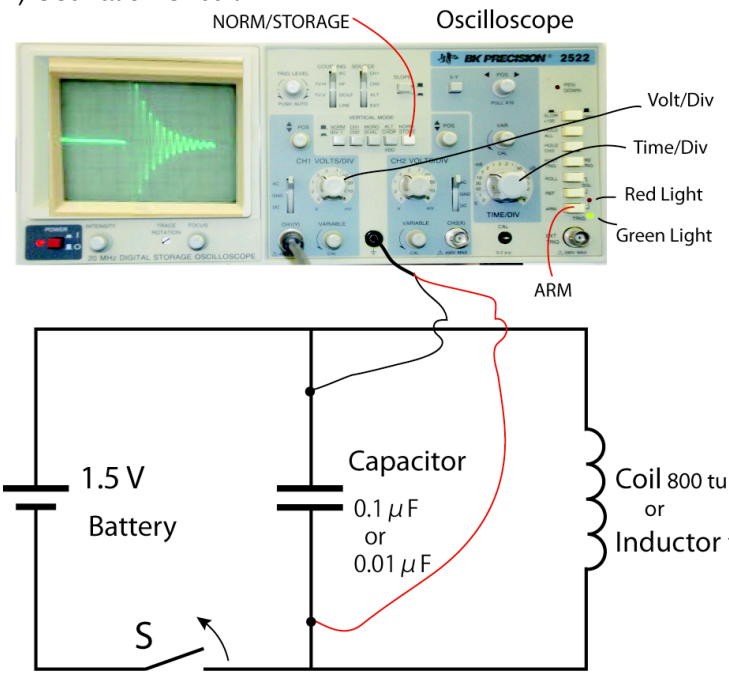
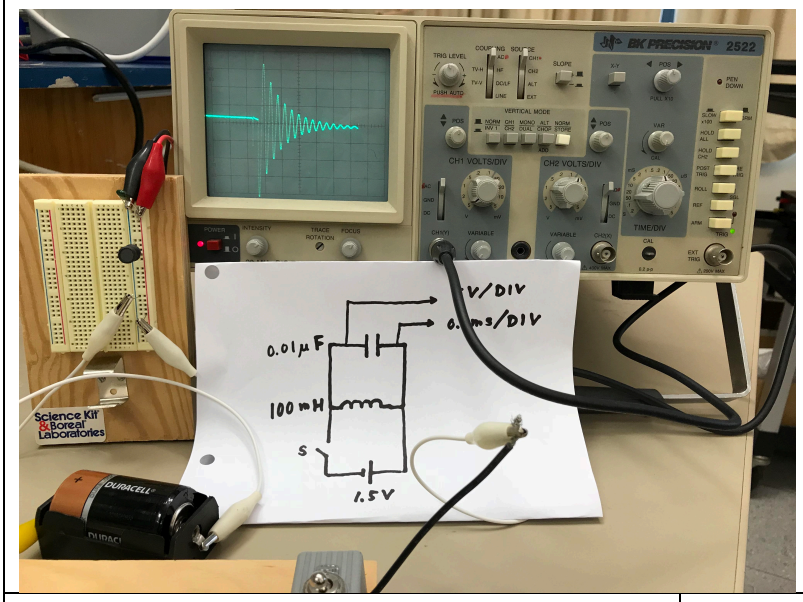
2) Oscillation Circuit



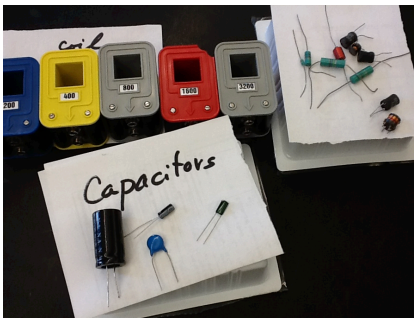
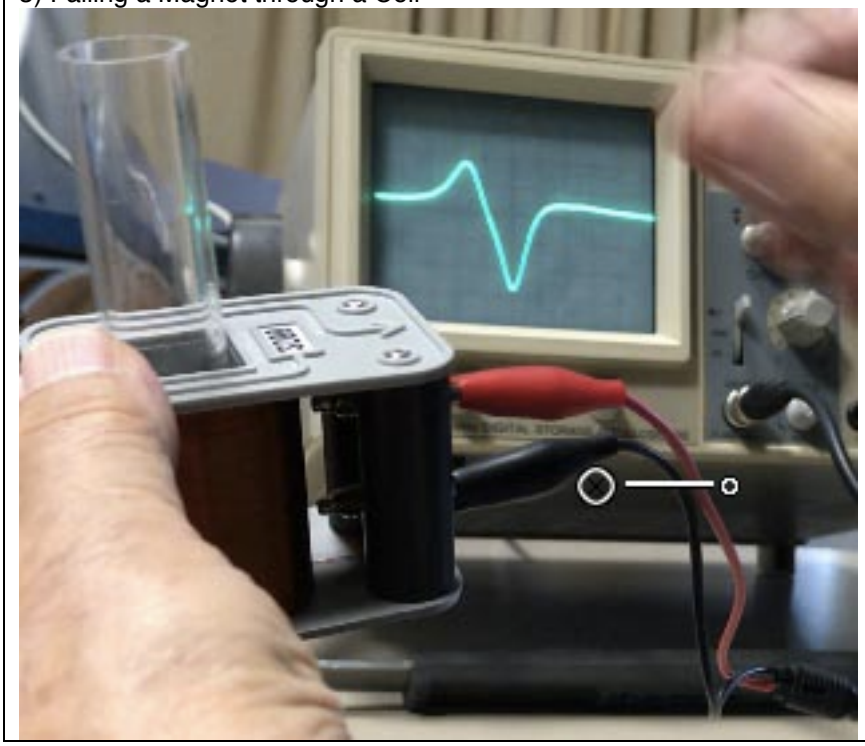


(1) Connect on Breadboard
Battery–Inductor-Capacitor-Switch

(2) Switch ON (Charge Battery)
(3) Push
NORM/STORAGE
(4) Adjust
Volt/Div ~ 5 V/DIV
Time/Div ~ 0.5 ms/DIV
(Try and Error)
(5) Push ARM
(Blue → Red light)
(6) Switch OFF
→ Pattern on Screen
(7) Repeat (2) ~ (6)

* Measure
Period, Frequency
* Comparison with Theory

$$f = \frac{1}{2\pi\sqrt{LC}}$$



3) Falling a Magnet through a Coil