
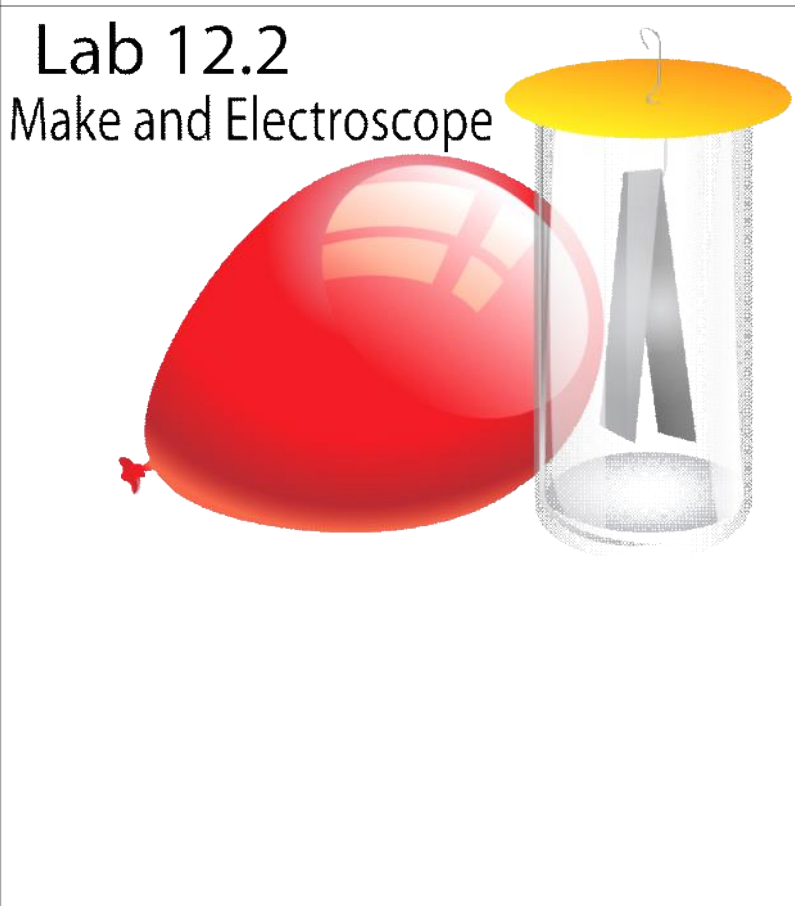


M12 Labs

Wednesday, June 01, 2011
4:27 PM

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Slides	Notes
 <p>Lab 12.1</p>	<p>Lab 12.1</p> <p>Materials</p> <ul style="list-style-type: none">• Two balloons [the text says round balloons work best, but any kind will do]• Thread• Cellophane tape• Eye protection such as goggles or safety glasses <p>Hang a balloon by a thread from the ceiling using tape. Rub that balloon and another balloon on your clean, dry hair. Note how the balloon that is hanging responds as you bring the free balloon near it.</p> <p>Now, stick tape to a table and grab a little of a free end and pull it off quickly from the table. Now bring that close to the balloon. What happens?</p>
 <p>Lab 12.2 Make and Electroscope</p>	<p>Lab 12.2: Make an Electroscope</p> <p>Materials</p> <ul style="list-style-type: none">• Tape• A clear glass• A plastic lid that fits over the glass [it must be the same size or larger than the mouth of the glass]• A paper clip• Two 5-cm x 1.5-cm strips of aluminum foil• A balloon• A pair of pliers• Eye protection such as goggles or safety glasses <p>Make the electroscope, then charge up a balloon using clean dry hair.</p> <p>First pass, bring balloon close to the top of the paper clip but do not touch it. What happens?</p> <p>Pull away. What happens?</p> <p>Now, make a pass where you let the balloon touch the paperclip. What happens?</p> <p>Touch with finger. Then bring balloon in toward the clip again without letting it touch. What happens? With the balloon near the clip, touch the clip with your finger (not the balloon). What happens?</p>



Lab 12.3

Lab 12.3

Materials

- A 1.5-volt battery [Any AA-, C-, or D-cell battery will work. Do not use any battery other than one of those, though, because a higher voltage can make the experiment dangerous.]
- Aluminum foil
- Scissors
- Eye protection such as goggles or safety glasses

Lay aluminum foil across the two ends of the battery. Note what you feel.