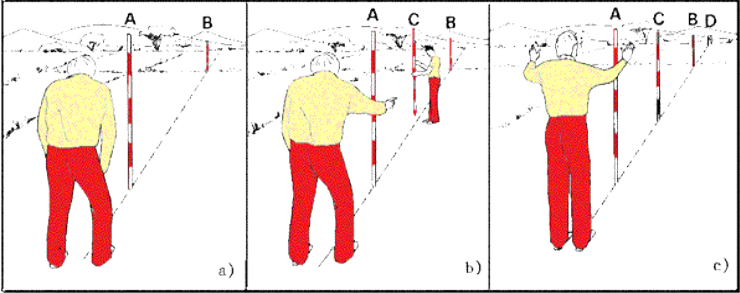




## SURVEYING Lab

	<p><b>Device Name: Range poles</b></p> <p><b>Used for:</b> Sightings by surveyors</p> <p><b>Experiment's associated with it:</b></p> <ol style="list-style-type: none"> <li>1. Alignment of a straight line with the naked eye</li> <li>2. Horizontal taping over uneven or sloping ground</li> </ol>
	<p><b>Device Name: Tape</b></p> <p><b>Used For:</b> Taking measurements.</p> <p><b>Experiment's associated with it:</b></p> <ol style="list-style-type: none"> <li>1. Determination of individual's pace length.</li> <li>2. Horizontal taping over uneven or sloping ground</li> <li>3. Horizontal control for mapping by linear measurements</li> <li>4. Taking the details relative to survey lines</li> <li>5. Testing the level and training on leveling</li> <li>6. Differential leveling</li> <li>7. Contouring from grid (or spot) elevations</li> <li>8. Measurement and calculation of open &amp; closed traverses</li> </ol>
	<p><b>Device Name: Level staff</b></p> <p><b>Used For:</b> Used with a leveling instrument to determine the difference in height between points or heights of points above a datum surface. It cannot be used without a leveling instrument.</p>

	<p><b>Experiment's associated with it:</b></p> <ol style="list-style-type: none"> <li>1. Testing the level and training on leveling</li> <li>2. Differential leveling</li> <li>3. Contouring from grid (or spot) elevations</li> </ol>
	<p><b>Device Name: Level</b></p>
	<p><b>Used For:</b> Establish or verify points in the same horizontal plane. It is used in surveying and building with a vertical staff to measure height differences and to transfer, measure and set heights.</p>
	<p><b>Experiment's associated with it:</b></p> <ol style="list-style-type: none"> <li>1. Testing the level and training on leveling</li> <li>2. Differential leveling</li> <li>3. Contouring from grid (or spot) elevations</li> </ol>
	<p><b>Device Name: Tripod</b></p>
<p><b>Used For:</b> Support any one of a number of surveying instruments, such as theodolites, total stations, levels or transits.</p>	
<p><b>Experiment's associated with it:</b></p> <ol style="list-style-type: none"> <li>4. Testing the level and training on leveling</li> <li>5. Differential leveling</li> <li>6. Contouring from grid (or spot) elevations</li> <li>7. Measurement of horizontal and vertical angles</li> <li>8. Measuring angles by repetition and horizontal closure by repetition</li> <li>9. Horizon closure by repetition</li> <li>10. measurement and calculation of open &amp; closed traverses</li> </ol>	



**Device Name: Theodolite**

**Used For:** Surveying applications

**Experiment's associated with it:**

1. Measurement of horizontal and vertical angles
2. Measuring angles by repetition and horizontal closure by repetition
3. Horizon closure by repetition
4. measurement and calculation of open & closed traverses



**Device Name: Total station**

**Used For:** Surveying and building construction

**Experiment's associated with it:**

TOTAL STATION

Device Name: DISTOMETER

**Used For:** Taking measurements.



**Experiment's associated with it:**

1. Determination of individual's pace length.
2. Horizontal taping over uneven or sloping ground
3. Horizontal control for mapping by linear measurements
4. Taking the details relative to survey lines
5. Testing the level and training on leveling
6. Differential leveling
7. Contouring from grid (or spot) elevations
8. Measurement and calculation of open & closed traverses



**Device Name: GPS**

**Used For:** Identify the constellation of Navstar satellites

**Experiment's associated with it:**

- Testing the level and training on leveling
- Differential leveling
- Contouring from grid (or spot) elevations
- measurement and calculation of open & closed traverses

**Surviving lab given by:** [Dr. Randa Mujalli](#)

**Course associated with it:** [Surveying](#)

**Lab Supervisor:** Eng. Hayfa Daher

**Lab Phone Number :** +962(5)3903333 – 4939

**Lab Location:** E1001