

# CE\_010 Fieldwork

## Lab 1

Stefano Casirati (TA)

UC Merced

2022-09-01

## Office Hours:

SRE 407 (or Zoom)

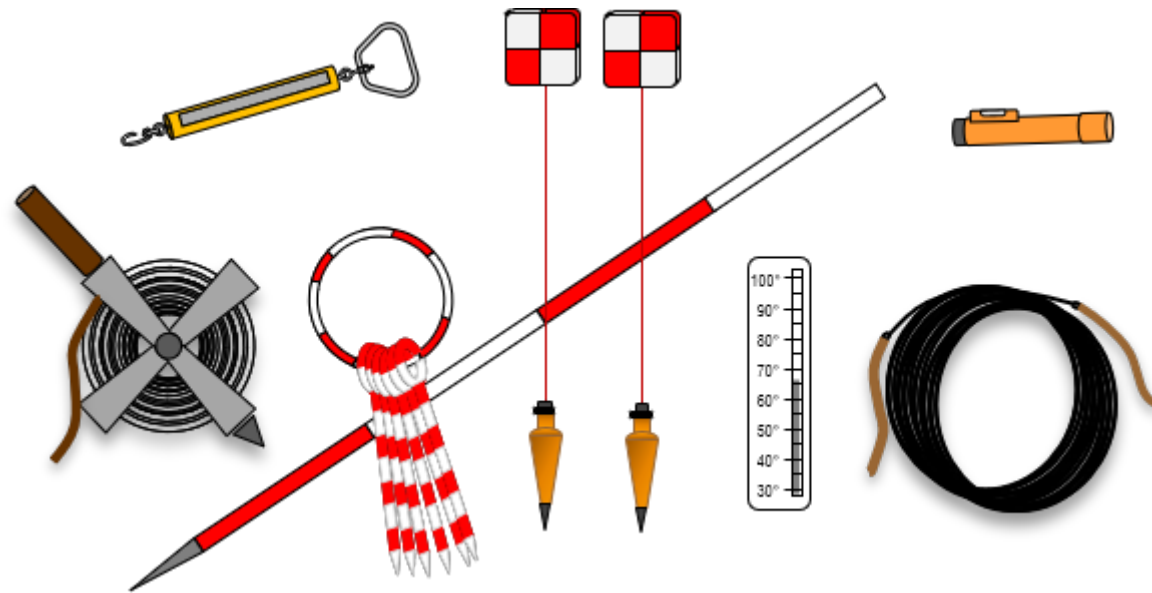
Thursday 10:00 am 12:00 pm

 [scasirati@ucmerced.edu](mailto:scasirati@ucmerced.edu)

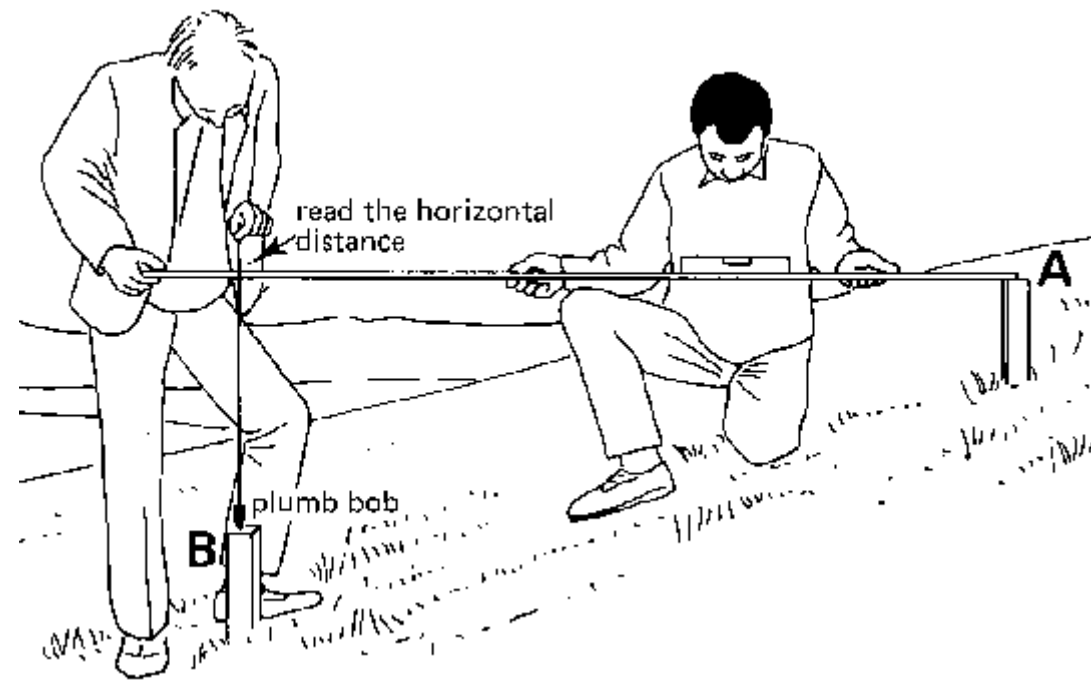
**UCMERCED**

# Today's topics...

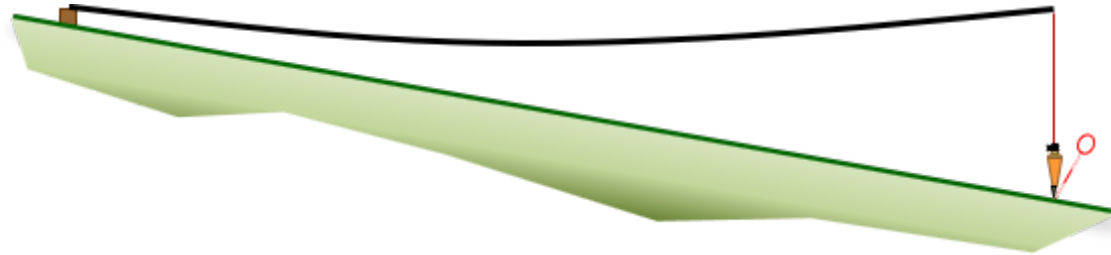
- Surveyors tape
- Surveyors rod
- Tripod setup
- Horizontal distances



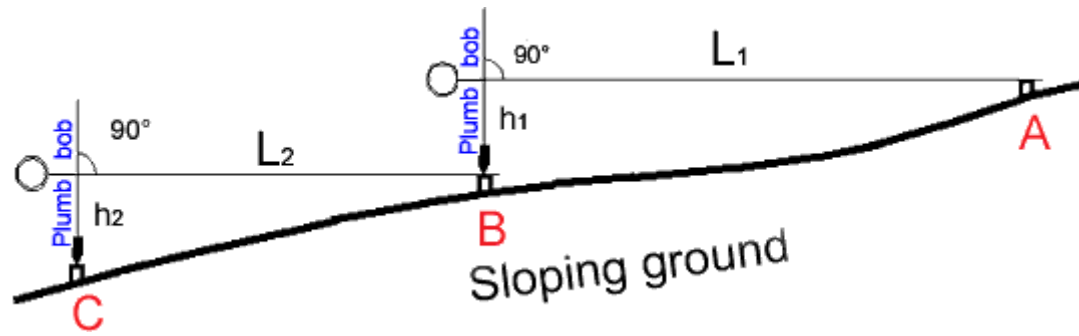
Source: Jerry Mahun



Source: FAO

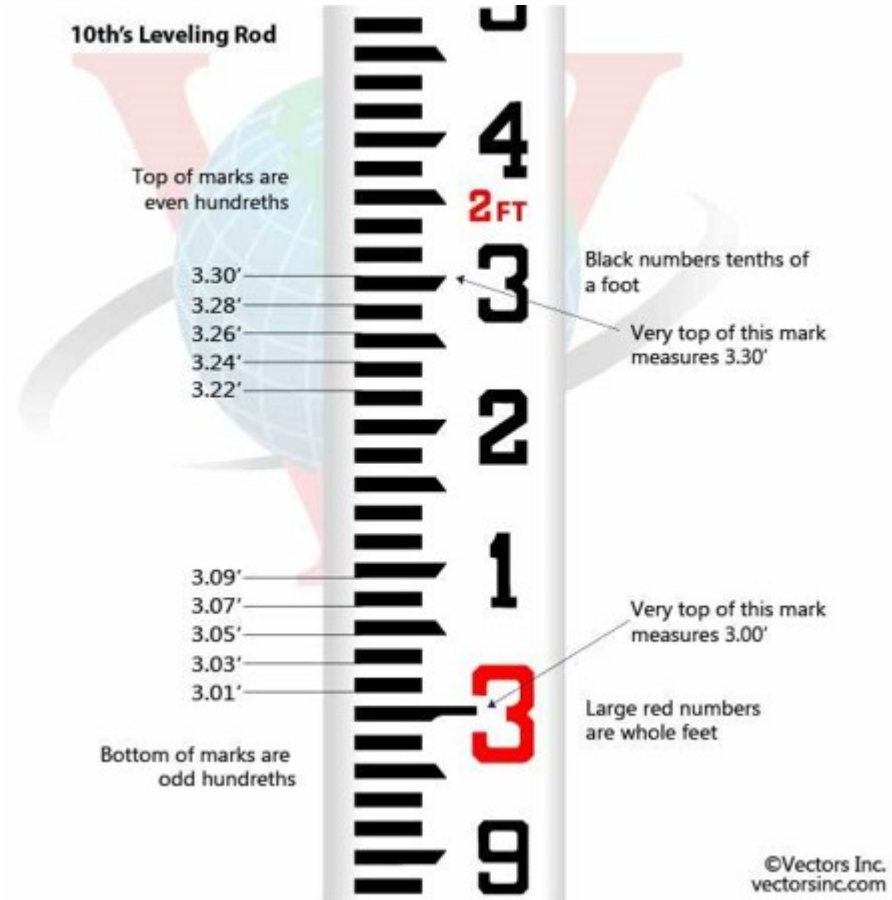
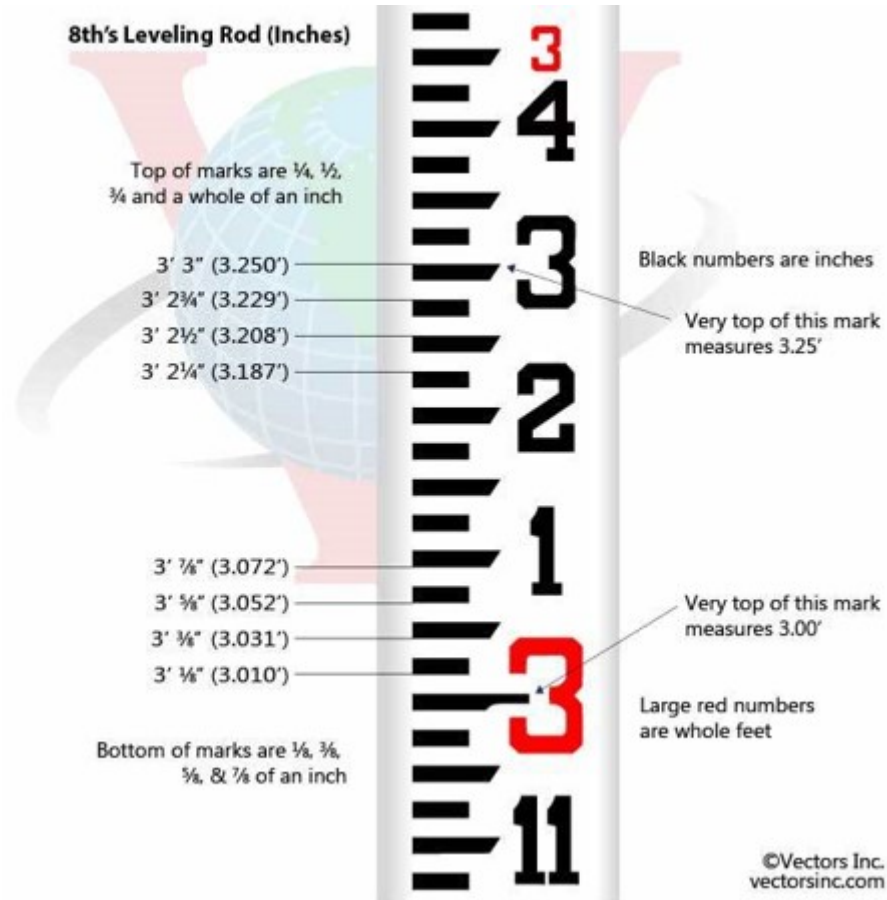


Source: Jerry Mahun

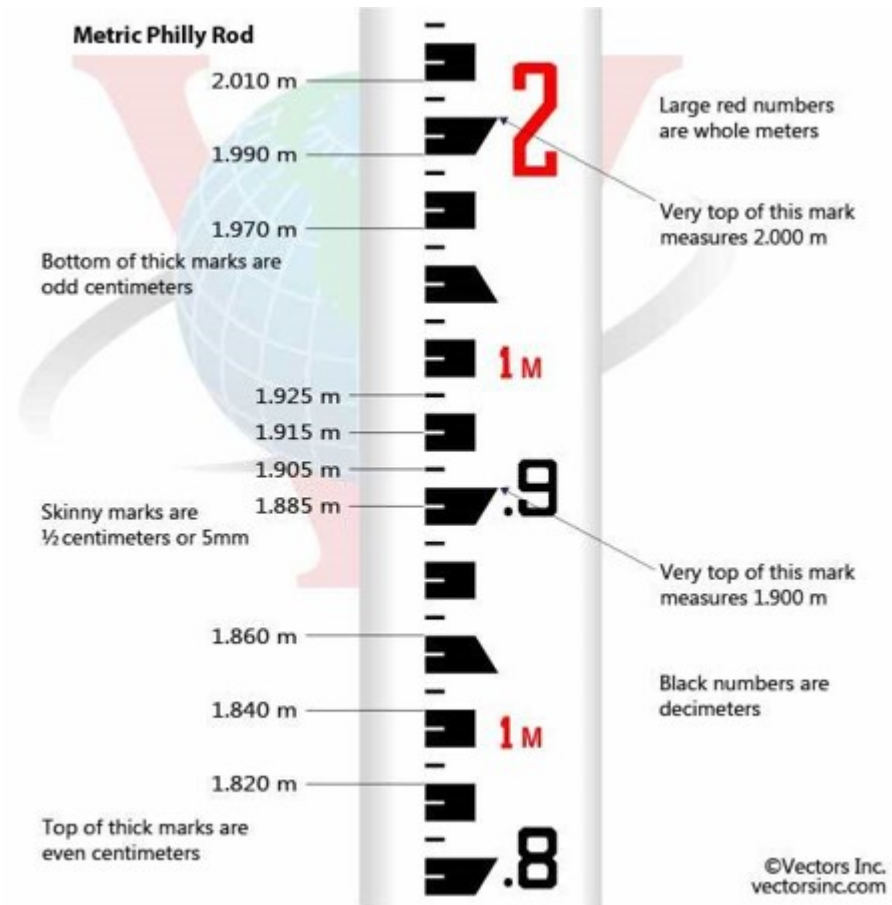
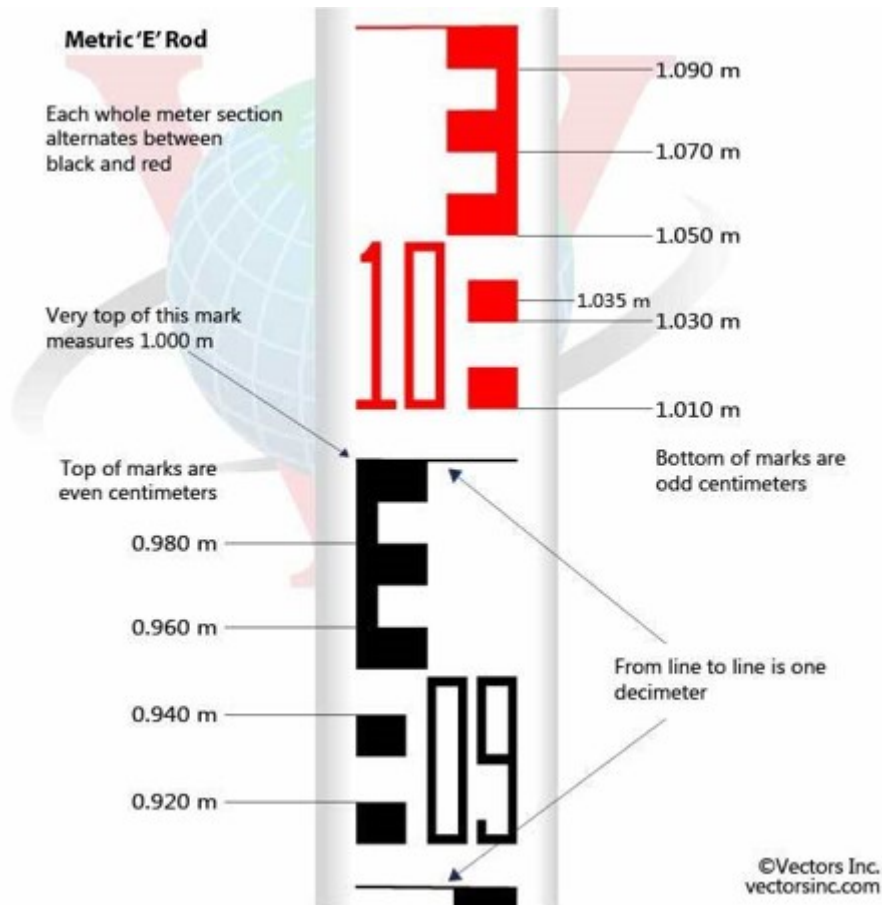


Source: Boeingconsult

# Surveyors Rods



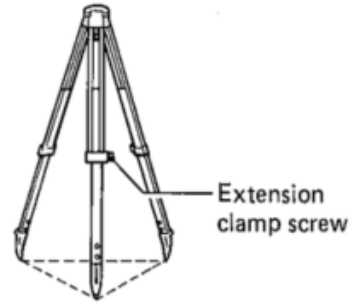
# Other types of Rods (Metric)



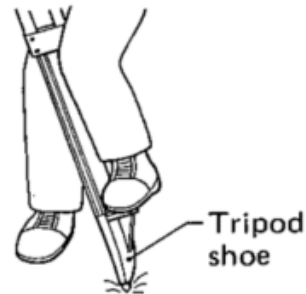


## 5.1 SETTING UP THE INSTRUMENT

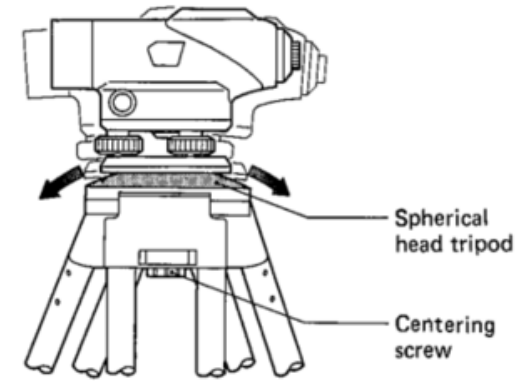
- 1 Unbuckle the band around the tripod legs and loosen the extension clamp screws.



- 2 With the tripod closed, extend the tripod legs until the tripod head is roughly at eye level, then re-tighten the clamp screws.
- 3 Spread the tripod legs so that the leg tips form a regular triangle on the ground.
- 4 Make sure that the tripod head is approximately level. Fix the tripod shoes firmly into the ground.



- 5 Hold the instrument on the tripod head and tighten the centering screw.



- 6 When using the spherical head tripod, slightly loosen the centering screw, hold the base plate in both hands, and slide it across the tripod head until the bubble is in the proximity of the circular level.
- 7 Tighten the centering screw.
- 8 Adjust the leveling foot screws until the bubble is exactly centered in the center circle.



## Goal of the day:

- Measure Horizontal Distances:
  - Steel tapes
  - Fiber Glass tapes
- Setting up tripods and reading the rod

### Study Area



5 Groups:

# Horizontal Distances

Path	Step	Measured distance	Unit	Date	Temperature	Method
...	...	...	...	...	...	...
...	...	...	...	...	...	...
...	...	...	...	...	...	...

**...Questions?**