

Earth Science Regent Exam

Part D – Lab Practical

Station 1: Mineral and Rock ID

- Read ALL DIRECTIONS step-by-step
- Fill-in all the codes from your station on the answer sheet
- Mineral flowchart: Metallic or Nonmetallic?
- If it is silver or gold, it's metallic
- Cleavage or Fracture?
- Cubic/stairs, it's cleavage
- Streak: use white plate
- color or colorless
- Soft or Hard:
- Does it scratch the glass?
- Write the LETTER of the MINERAL on your answer sheet

Station 1: Mineral and Rock ID

- Rock ID: Decide if it's sedimentary, igneous, or metamorphic
- Sedimentary: fragments cemented together, fossils, or layers
- Igneous: CRYSTALS, gas pockets, or glassy
- Metamorphic: banding, distorted, mica/garnet
- Choose the correct type and use one of THESE REASONS

Rock ID



Rock ID



Rock ID



Rock ID



Rock ID



Station 2: Locating an Epicenter

- Station A is done for you.
 - Station B: the distance is given to you. Open your compass to the distance on the bottom of the map and draw your circle around B.
 - Station C: Read the seismogram. Find the DIFFERENCE between the P & S wave arrival time by subtracting.
- Using ESRT pg. 11, mark time on a piece of paper & find the epicenter distance.
- Open your compass again to that distance and draw your circle on C.
- Place an X where the 3 circles intersect.

Station 3: Ellipse

- Use your pushpins & string to draw an ellipse on the lettered dot of your station.
 - Label one FOCI "S"
 - Place an "X" on the ellipse right next to the "S" focus (greatest velocity)
 - Measure the distances to the NEAREST TENTH (one decimal place)
 - Calculate eccentricity (using formula & calculator)
 - Compare it to the planet using ESRT pg. 15
- More eccentric = closer to 1, Less ecc. = closer to 0