# Earth Science Regent Exam

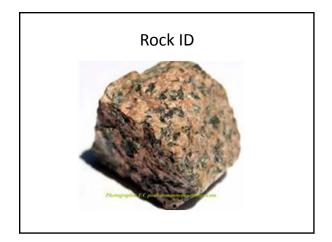
Part D – Lab Practical

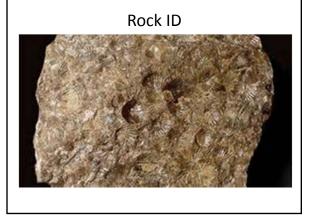
#### Station 1: Mineral and Rock ID

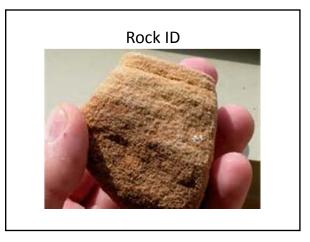
- Read ALL DIRECTIONS step-by-step
- Fill-in all the codes from your station on the answer sheet
- Mineral flowchart: Metallic or Nonmetallic?
- -If it is silver or gold, it's metallic
- Cleavage or Fracture?
- -Cubic/stairs, it's cleavage
- Streak: use white plate
- -color or colorless
- Soft or Hard: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

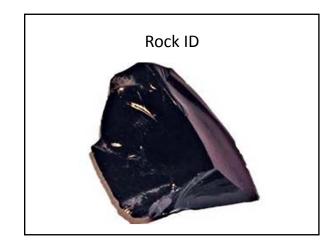






**Rock ID** 





## 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