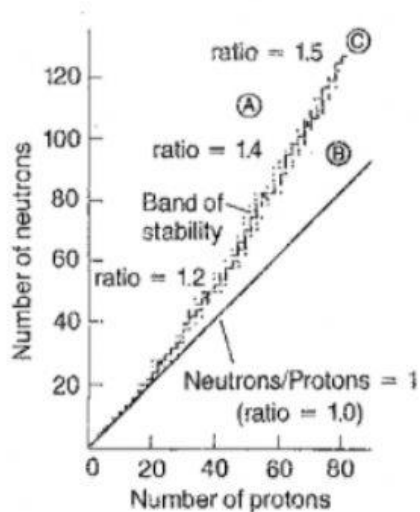


Name: \_\_\_\_\_ date: \_\_\_\_\_ block: \_\_\_\_\_

## Do Now: The Band of Stability



Match each term from the graph with its description:

- |                                   |  |
|-----------------------------------|--|
| ___ 1. Band of Stability          | a. Unstable nuclei convert a $p^+$ to an $n^0$ |
| ___ 2. neutron/proton ratio = 1.0 | b.. Stable ratio for heavier isotopes          |
| ___ 3. neutron/proton ratio = 1.5 | c. Contains all stable nuclei                  |
| ___ 4. Region A                   | d. Unstable nuclei emit alpha particles        |
| ___ 5. Region B                   | e. Stable ratio for lighter isotopes           |
| ___ 6. Region C                   | f. Unstable nuclei undergo beta decay          |