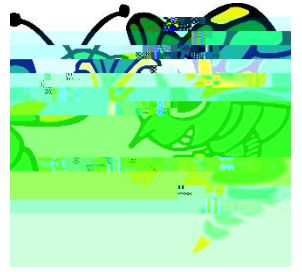


D D E

PROBANT TWENTY

CHIA TO



		<p>identify the groups that have a common name such as alkali metals, alkaline earth metals, halogens, noble gases</p> <p>identify periods that have a common name such as lanthanides and actinides.</p> <p>identify an element's reactivity by its location on the periodic table</p> <p>find the atomic number and the average atomic mass on the periodic table</p>
8	Explain the history of the atom.	<p>describe how the atom has changed over time and what scientist helped with these discoveries</p> <p>identify the different models that we have had for the atom and explain why these changes occurred.</p> <p>defend our modern model using data</p>
9	Draw and describe the structure of an atom using the periodic table	<p>know the atom is made up of a nucleus and an electron cloud</p> <p>Draw an atom of an element in the first three rows using patterns of atomic drawings and periodic table info.</p> <p>know the atom contains three subatomic particles, proton, neutron, and electron</p> <p>know the atomic number is = protons</p> <p>atoms are neutral so protons = electrons</p> <p>protons have +charge, electrons have - charge and neutrons are neutral</p> <p>atom is held together by an electrical charge</p> <p>fill in a chart that shows how many subatomic particles are in an atom and its atomic mass</p> <p>Define and calculate the mass number</p> <p>explain and calculate the average atomic mass</p> <p>explain how atoms of one element are different from another element</p> <p>I can explain how atoms of the same element are similar</p>
10	Define and describe the structure of isotopes	<p>explain what an isotope is.</p> <p>be able to fill out a chart to show a visual of the similarities and differences of isotopes atomic structure</p> <p>Be able to write isotope symbols for elements and atomic particles</p> <p>predict most common isotope using the periodic table</p>
11	Identify and define radioactive/natural isotopes using a chart	<p>define a radioactive isotope</p> <p>using a chart determine the radioactive isotope and the most abundant</p> <p>what causes an isotope to be more stable than another</p> <p>compare the predicted isotope using the periodic table to the most common isotope on the chart</p>
12	I can identify and predict the 4 main nuclear reactions. Fission, fusion, beta decay and alpha decay.	<p>identify and predict fission reactions</p> <p>identify and predict fusion reactions</p> <p>identify and predict alpha decay</p> <p>identify and predict beta decay</p> <p>show the conservation of mass using the top mass number and bottom atomic number in isotope symbols</p>
13	I can Connect the periodic table to electron configurations in the atom	<p>identify the s, p, d, and f</p> <p>identify the energy level that an element contains using the periodic table</p> <p>draw the model of an atom using the periodic table as a guide</p> <p>write full electron configurations</p> <p>write noble gas configurations</p> <p>identify the ion that an element would make according to its place on the periodic table</p> <p>predict how many electrons an atom would lose or gain according to its place on the periodic table</p>
14	I can name molecular and ionic compounds	<p>identify ionic, molecular and acid compounds</p> <p>understand what occurs when ionic bonds and molecular bonds are formed(transfer/sharing of electrons)</p> <p>predict the formula of an ionic and molecular compound with its name</p> <p>name polyatomic ions</p> <p>use Roman numerals with metal ions</p> <p>Name and predict formulas for ionic compounds using a chart of ions</p>

