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Chemical Bonding (PCCB)
Activity 2 - What's in a name?

Objective: Identify ions simply using electron configuration (ionization)

Pre-Work: Examine the table below and answer the following questions.

Element	Symbol	Chemical Formula	Compound Name
Na	Na	NaCl	Sodium chloride
Ca	Ca	CaCl ₂	Calcium chloride
Al	Al	AlCl ₃	Aluminum chloride
P	P	P ₂ O ₅	Diphosphorus pentoxide

Remember the Model

- For ALL cations positive ions or negative ions?
- For ALL cations positive ions or negative ions?
- What is the name of the compound? Identify the constituents of the cation and the anion?

Exploring the Model

- When the ions of the lower compound is given, what does it mean?
- Examine the first part of the compound name to the name of the cation from the periodic table. What does the name of the cation correspond to the name of the element?
- Examine the second part of the compound name to the name of the anion from the periodic table. What does the name of the anion correspond to the name of the element?
- From what part of the periodic table do the cations in the Model come? (metals or nonmetals)?
- From what part of the periodic table do the anions in the Model come?

Remember Your Knowledge

- For each of the following, predict whether the ion will likely be a cation or an anion.
 - Magnesium ion
 - Sulfide ion
 - Bromide ion
 - Fluoride ion

For each ion, compound, identify the cation and the anion.

- Sulfur dioxide
- Carbon dioxide
- Iron(III) chloride
- Barium chloride

- In what way do the ions generally show about the classification of each element as a metal or nonmetal?
- What do the periodic table would you expect to find elements that form cations?
- What do the periodic table would you expect to find elements that form anions?

Remember Your Examples

- Consider the ions you identified, and with a general rule for how you change the name of elements to cations when naming ionic compounds.
- Consider the ions you identified, and with a general rule for how you change the name of elements to anions when naming ionic compounds.
- From the chemical formula of an ionic compound, list at least three necessary steps to give the correct name of the compound. Illustrate one systematic formula of a compound from the table above as an example in listing the naming steps.

Name _____
Do _____

Unit IX: Worksheet 2

1. Kim holds a 2.0 kg air rifle loosely and fires a bullet of mass 1.0 g. The muzzle velocity of the bullet is 150 m/s. What is the recoil speed of the rifle?

mostly collisions

11 p/s, 2.0 kg, 1.0 g, 150 m/s

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

$$2.0 \cdot 0 + 0.001 \cdot 150 = 2.0 v_1' + 0.001 \cdot 150$$

$$0.15 = 2.0 v_1' + 0.15$$

$$0 = 2.0 v_1'$$

$$v_1' = 0 \text{ m/s}$$

2. If the girl in the previous question holds the rifle tightly against her body, the recoil speed is less. Explain. Calculate the new recoil speed assuming the girl has a mass of 48 kg.

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

$$(2.0 + 48) \cdot 0 + 0.001 \cdot 150 = (2.0 + 48) v_1' + 0.001 \cdot 150$$

$$0.15 = 50 v_1' + 0.15$$

$$0 = 50 v_1'$$

$$v_1' = 0 \text{ m/s}$$

3. In a freight yard a train is being put together from freight cars. An empty freight car, coasting at 10 m/s, strikes a loaded car that is stationary and the cars couple together. Each of the cars has a mass of 3000 kg when empty, and the loaded car contains 12,000 kg of canned soda (a year's supply for the Physics class). With what speed does the combination of the two cars start to move?

$$m_1 v_1 + m_2 v_2 = (m_1 + m_2) v$$

$$3000 \cdot 10 + 15000 \cdot 0 = (3000 + 15000) v$$

$$30000 = 18000 v$$

$$v = \frac{30000}{18000} = 1.7 \text{ m/s}$$

4. An astronaut whose mass is 80 kg carries an empty oxygen tank with a mass of 10 kg. He throws the tank away from himself with a speed of 2.0 m/s. With what velocity does he start to move off into space?

$$(m_1 + m_2) v = m_1 v_1' + m_2 v_2'$$

$$(80 + 10) \cdot 0 = 80 v_1' + 10 \cdot 2.0$$

$$90 \cdot 0 = 80 v_1' + 20$$

$$-20 = 80 v_1'$$

$$v_1' = \frac{-20}{80} = -0.25 \text{ m/s}$$

5. A tennis player returns a 30 m/s serve straight back at 25 m/s, after making contact with the ball for 0.50 s. If the ball has a mass of 0.20 kg, what is the force she exerted on the ball?

$$F \Delta t = m \Delta v$$

$$F = \frac{m \Delta v}{\Delta t}$$

$$F = \frac{0.20 (-25 - 30)}{0.50} = -22 \text{ N}$$

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Element	Symbol	Group	Period	Block
H	H	1	1	s
He	He	18	1	p
Li	Li	1	2	s
Be	Be	2	2	s
B	B	13	2	p
C	C	14	2	p
N	N	15	2	p
O	O	16	2	p
F	F	17	2	p
Ne	Ne	18	2	p
Na	Na	1	3	s
Mg	Mg	2	3	s
Al	Al	13	3	p
Si	Si	14	3	p
P	P	15	3	p
S	S	16	3	p
Cl	Cl	17	3	p
Ar	Ar	18	3	p
K	K	1	4	s
Ca	Ca	2	4	s
Sc	Sc	3	4	d
Ti	Ti	4	4	d
V	V	5	4	d
Cr	Cr	6	4	d
Mn	Mn	7	4	d
Fe	Fe	8	4	d
Co	Co	9	4	d
Ni	Ni	10	4	d
Cu	Cu	11	4	d
Zn	Zn	12	4	d
Ga	Ga	13	4	p
Ge	Ge	14	4	p
As	As	15	4	p
Se	Se	16	4	p
Br	Br	17	4	p
Kr	Kr	18	4	p
Rb	Rb	1	5	s
Sr	Sr	2	5	s
Y	Y	3	5	d
Zr	Zr	4	5	d
Nb	Nb	5	5	d
Mo	Mo	6	5	d
Tc	Tc	7	5	d
Ru	Ru	8	5	d
Rh	Rh	9	5	d
Pd	Pd	10	5	d
Ag	Ag	11	5	d
Cd	Cd	12	5	d
In	In	13	5	p
Sn	Sn	14	5	p
Sb	Sb	15	5	p
Te	Te	16	5	p
I	I	17	5	p
Xe	Xe	18	5	p
Ba	Ba	2	6	s
La	La	3	6	f
Ce	Ce	4	6	f
Pr	Pr	5	6	f
Nd	Nd	6	6	f
Pm	Pm	7	6	f
Sm	Sm	8	6	f
Eu	Eu	9	6	f
Gd	Gd	10	6	f
Tb	Tb	11	6	f
Dy	Dy	12	6	f
Ho	Ho	13	6	f
Er	Er	14	6	f
Tm	Tm	15	6	f
Yb	Yb	16	6	f
Lu	Lu	17	6	f
Hf	Hf	4	6	d
Ta	Ta	5	6	d
W	W	6	6	d
Re	Re	7	6	d
Os	Os	8	6	d
Pt	Pt	9	6	d
Au	Au	10	6	d
Hg	Hg	11	6	d
Tl	Tl	13	6	p
Pb	Pb	14	6	p
Bi	Bi	15	6	p
Po	Po	16	6	p
At	At	17	6	p
Rn	Rn	18	6	p
Fr	Fr	1	7	s
Ra	Ra	2	7	s
Ac	Ac	3	7	f
Th	Th	4	7	f
Pa	Pa	5	7	f
U	U	6	7	f
Np	Np	7	7	f
Pu	Pu	8	7	f
Am	Am	9	7	f
Cm	Cm	10	7	f
Bk	Bk	11	7	f
Cf	Cf	12	7	f
Es	Es	13	7	f
Fm	Fm	14	7	f
Mendelevium	Md	15	7	f
Nobelium	Nb	16	7	f
Lanthanum	La	3	6	f
Cerium	Ce	4	6	f
Praseodymium	Pr	5	6	f
Neodymium	Nd	6	6	f
Europium	Eu	7	6	f
Gadolinium	Gd	8	6	f
Terbium	Tb	9	6	f
Dysprosium	Dy	10	6	f
Ytterbium	Yb	11	6	f
Lutetium	Lu	12	6	f

If you want an investment that makes money but usually carries less risk than investing in the stock market, the bond market may be perfect for you. Securities can be a great way to diversify your portfolio or establish a stable income. One of the benefits of some government bonds is © that interest payments are not subject to state taxes. One of them is © the risk of default, the chance that the company or entity that borrowed the borrowed money go down before paying it back. Government bonds are considered very stable and low risk, so they do not offer a very high coupon. For example, the issuer of the bond is © the company that borrows the money. The other is © the interest rate risk, the chance that global interest rates increase significantly and make the coupon inoperable. Take a closer look at the chemical bonds responsible for the structure of the protection. Here's what you need to know. Proteins are biological polymers built from amino acids united to form peptides. Municipal bonds and treasury bonds are examples. You too © m can sign up on electronic bond trading sites to buy bonds online, but you want to proceed carefully. The higher interest rate compensates for the greater risk of the company leaving the business before paying you. This is © the amount you earn in exchange for letting the company or government use your money. AlA © m of that, A © it takes a lot of research to make sure you are getting a good price. You too © m can buy and sell securities before they reach maturity. While the secondary structure describes the shape of amino acid chains in space, the tertiary structure is © the total form assumed by the whole mole © cula, which can contain regions of both sheets and coils. The beta-pleated sheet is © stabilized by hydrogen bonds between the amine groups of a polypeptide and carbonyl groups in a second adjacent chain. The obligation is © issued for a predetermined period of time, known as maturity, and the bond bond The value is the facial value of the connection, usually \$ 1,000. In addition, the group R of each amino acid can be hydrophobic or hydrophilic. Rates of obligations vary significantly, depending on the risk of the company issuing it. Purchase in obligations funds can be a better alternative as long as rates are low. The price you could sell the previous van would go down, making it less valuable. A peptide connection is a covalent type of connection between the carboxyl group of an amino acid and the amino group of another amino acid. Amino acid owns are made of an arostages united by covalent titles. Well-established companies that issue obligations have a fee, while unstable companies á ě à ě ø have a much larger coupon. Many information on titles are not disclosed, and can be easy to pay too much. The corporate obligations are sometimes offer a better interest rate than a simple savings account, but are more Ovéis for coupon, which can provide consistent income to each month. When interest rates undercut, new obligations have better rates. In maturity, the total value of the connection is paid back. It is clear that short-term teritl rates are smaller because the risk is minor. However, you need to do some research to get the best deals. A hydrogen connection is a dipolo-dipolo interaction between a hydrogen and an electronegative area, such as nitrogen or oxygen. An unique polypeptide chain may contain various alpha-hospital and beta-pleated regions. A van is a date issued by a company or a government. After meeting the issuer, coupon and maturity, you want the information you need to find the fair price of the van. This three-dimensional form is maintained in place by hydrogen connections. The secondary structure describes the three-dimensional folding or winding of an amino acid chain (for example, beta-pleated sheet, alpha). They essentially use bonds to borrow money and pay interest up to © that the bond matures. These peptide subunits can relate to other peptides to form more structures. Various types of chemical connections keep proteins together and bind them to other molesm. In addition, other types of insurance investments could pay higher interest rather than the Totals. You can seek municipal title fees by state. However, you have to pay federal taxes on income. Amino acids are united by peptide connections. Consider using a current respective tilt premise calculator. The primary structure of a protein consists of amino acids chained each other. An example of such protein is hemoglobin. Your broker can say that the purchase is free of commission, but this is only because the company is charging a margin. Some proteins are made of subunits in which protein molesps bind to form a larger unit. You can buy titles directly from the issuer, but this is just a good idea if you have a significant capital to invest unless you are buying treasury. If a protein consists of a polypeptide chain, a tertiary structure is the highest structure level. , Hydrogen connection affects the tertiary structure of a protein. Each license alpha is stabilized by the hydrogen connection between the amine and carbonyl groups in the same polypeptide chain. Interest paid periodically call themselves coupon. Why buy corporate obligations? It is a challenging place to be, and that is why many people choose to invest in short-term titles to avoid it. Totimes come with a lot of language you need to understand. More than Askmoney. With the risks of the obligations there are two types of risk for any obligation. Quaternary structure describes how the subunits fit to form the larger molem. 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