Trinity Catholic High School

Advanced Placement Summer Work

AP Chemistry

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AP Chemistry

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First, you have taken on a class that is worthwhile and beneficial but is also very difficult and hard. You will spend many nights studying, reviewing, practicing, calculating, and memorizing. The reward on the other side of these long, arduous nights is a passing score on the AP Chemistry exam and an A in my class. The benefits don't stop there! You will be more prepared for college having taken this rigorous course!

Second, you have a summer assignment to complete. Please learn and set to memory all the polyatomic ions on the list that I have provided. Use the flashcards to help you.

Third, you will have a test on this material on the third day of school. This will be your first summative test grade for Semester 1.

Finally, AP Chemistry becomes a family throughout this whole process. So reallydecide if you're willing and ready to be part of this awesome AP Chem family.

AP Chemistry

Common Ions and Their Charges

A mastery of the common ions, their formulas and their charges, is essential to success in AP Chemistry. You are expected to know all of these ions on the first day of class. I will give you a quiz on them on the third day of class. You will always be allowed a periodic table, which makes identifying the ions on the left "automatic."

Polyatomic Ions Flashcards

Instructions:
Cut out the flashcards from the following pages. The following are the polyatomic ions you must memorize for the quiz. Write each ion name on the back of the flashcard to which it belongs.

Word Bank:

$C_2H_3O_2^-$ acetate
ClO_3^- chlorate
ClO_2^- chlorite
CN^- cyanide
HCO_3^- bicarbonate
OH^- hydroxide
$NO3^-$ nitrate
$NO2^-$ nitrite
ClO_4^- perchlorate
MnO_4^- permanganate
SCN^- thiocyanate
CO_3^{2-} carbonate
CrO_4^{2-} chromate
$Cr_2O_7^{2-}$ dichromate
SO_4^{2-} sulfate
SO_3^{2-} sulfite
PO_4^{3-} phosphate
PO_3^{3-} phosphite
NH_4^+ ammonium
O_2^{2-} peroxide

NH_4^+	NO_2^-
NO_3^-	OH^-

CN^-	MnO_4^-
HCO_3^-	ClO^-

ClO_2^-	ClO_4^-
ClO_3^-	SCN^-

CO_3^{2-}	$C_2H_3O_2^-$
CrO_4^{2-}	PO_4^{3-}
$Cr_2O_7^{2-}$	SO_3^{2-}
SO_4^{2-}	O_2^{2-}