

# ATOMIC NUMBER AND MASS PRACTICE ANSWERS

ATOMIC NUMBER AND MASS PRACTICE ANSWERS DECODING THE ATOM ATOMIC NUMBER MASS PRACTICE ANSWERS EXPLANATIONS SO YOU'RE TACKLING ATOMIC NUMBER AND MASS IT CAN FEEL A BIT DAUNTING AT FIRST BUT TRUST ME ONCE YOU GRASP THE FUNDAMENTAL CONCEPTS IT BECOMES MUCH CLEARER THIS BLOG POST WILL WALK YOU THROUGH EVERYTHING YOU NEED TO KNOW ABOUT ATOMIC NUMBER AND MASS PROVIDING PRACTICE ANSWERS EXPLANATIONS AND TIPS TO ACE YOUR NEXT CHEMISTRY TEST OR SIMPLY EXPAND YOUR SCIENTIFIC KNOWLEDGE UNDERSTANDING THE BASICS ATOMIC NUMBER AND MASS NUMBER IMAGINE AN ATOM AS A TINY SOLAR SYSTEM AT THE CENTER YOU HAVE THE NUCLEUS CONTAINING POSITIVELY CHARGED PROTONS AND NEUTRAL NEUTRONS WHIZZING AROUND THE NUCLEUS ARE NEGATIVELY CHARGED ELECTRONS ATOMIC NUMBER  $Z$  THIS IS THE NUMBER OF PROTONS FOUND IN THE NUCLEUS OF AN ATOM ITS LIKE THE ATOMS UNIQUE IDENTIFICATION NUMBER CRUCIALLY THE ATOMIC NUMBER DEFINES THE ELEMENT ALL ATOMS OF A GIVEN ELEMENT HAVE THE SAME ATOMIC NUMBER FOR EXAMPLE ALL HYDROGEN ATOMS HAVE AN ATOMIC NUMBER OF 1 ALL CARBON ATOMS HAVE AN ATOMIC NUMBER OF 6 AND ALL OXYGEN ATOMS HAVE AN ATOMIC NUMBER OF 8 MASS NUMBER  $A$  THIS IS THE TOTAL NUMBER OF PROTONS AND NEUTRONS IN THE NUCLEUS ITS ESSENTIALLY THE ATOMS TOTAL WEIGHT THOUGH WERE TALKING ABOUT ATOMIC MASS UNITS OR AMU HERE NOT KILOGRAMS SINCE THE MASS OF ELECTRONS IS NEGLIGIBLE COMPARED TO PROTONS AND NEUTRONS WE USUALLY IGNORE THEM WHEN CALCULATING MASS NUMBER VISUAL REPRESENTATION LETS USE A SIMPLE VISUAL TO UNDERSTAND IMAGINE A CIRCLE REPRESENTING THE NUCLEUS NUCLEUS  $6p$  6 PROTONS ATOMIC NUMBER 6  $6n$  6 NEUTRONS MASS NUMBER  $A$  6 + 6 = 12 2 THIS REPRESENTS A CARBON-12 ATOM MORE ON ISOTOPES BELOW HOW TO CALCULATE ATOMIC NUMBER AND MASS NUMBER THE ATOMIC NUMBER IS ALWAYS READILY AVAILABLE ON THE PERIODIC TABLE THE MASS NUMBER HOWEVER NEEDS A LITTLE CALCULATION MASS NUMBER  $A$  NUMBER OF PROTONS  $P$  NUMBER OF NEUTRONS  $N$  NUMBER OF NEUTRONS  $N$  MASS NUMBER  $A$  NUMBER OF PROTONS  $P$  NUMBER OF PROTONS  $P$  ATOMIC NUMBER  $Z$  PRACTICE PROBLEMS WITH ANSWERS AND EXPLANATIONS LETS WORK THROUGH SOME EXAMPLES PROBLEM 1 AN ATOM HAS 17 PROTONS AND 18 NEUTRONS WHAT IS ITS ATOMIC NUMBER AND MASS NUMBER ANSWER ATOMIC NUMBER  $Z$  17 BECAUSE THE NUMBER OF PROTONS DEFINES THE ELEMENT MASS NUMBER  $A$  17 PROTONS 18 NEUTRONS 35 PROBLEM 2 AN ATOM OF CHLORINE HAS A MASS NUMBER OF 37 AND AN ATOMIC NUMBER OF 17 HOW MANY NEUTRONS DOES IT CONTAIN ANSWER NUMBER OF NEUTRONS  $N$  MASS NUMBER  $A$  ATOMIC NUMBER  $Z$  37 - 17 = 20 NEUTRONS PROBLEM 3 IDENTIFY THE ELEMENT WITH AN ATOMIC NUMBER OF 8 AND EXPLAIN WHY ANSWER THE ELEMENT WITH AN ATOMIC NUMBER OF 8 IS OXYGEN  $O$  THE ATOMIC NUMBER UNIQUELY IDENTIFIES EACH ELEMENT ON THE PERIODIC TABLE ISOTOPES THE SAME ELEMENT DIFFERENT MASS ISOTOPES ARE ATOMS OF THE SAME ELEMENT SAME ATOMIC NUMBER BUT WITH A DIFFERENT NUMBER OF NEUTRONS AND THEREFORE A DIFFERENT MASS NUMBER FOR EXAMPLE CARBON HAS TWO COMMON ISOTOPES CARBON-12 6 PROTONS 6 NEUTRONS AND CARBON-14 6 PROTONS 8 NEUTRONS BOTH ARE CARBON BECAUSE THEY HAVE 6 PROTONS BUT THEY HAVE DIFFERENT MASS NUMBERS DUE TO THE VARYING NUMBER OF NEUTRONS HOW TO REPRESENT ISOTOPES ISOTOPES ARE OFTEN REPRESENTED USING THE ELEMENT SYMBOL FOLLOWED BY THE MASS NUMBER AS A 3 SUPERScript  $C$  CARBON-12 AND  $C$  CARBON-14 ADVANCED PRACTICE PROBLEMS PROBLEM 4 POTASSIUM HAS THREE NATURALLY OCCURRING ISOTOPES  $K$  39  $K$  40 AND  $K$  41 EXPLAIN WHAT THIS MEANS AND HOW THE AVERAGE ATOMIC MASS IS CALCULATED ANSWER THIS MEANS THAT POTASSIUM EXISTS IN NATURE AS THREE DIFFERENT ISOTOPES EACH WITH A DIFFERENT MASS NUMBER AND ABUNDANCE THE AVERAGE ATOMIC MASS IS CALCULATED BY TAKING A WEIGHTED AVERAGE OF THE MASS NUMBERS OF EACH ISOTOPE CONSIDERING ITS RELATIVE ABUNDANCE PROBLEM 5 AN UNKNOWN ELEMENT  $X$  HAS TWO ISOTOPES  $X$  70 ABUNDANCE AND  $X$  30 ABUNDANCE CALCULATE THE AVERAGE ATOMIC MASS OF ELEMENT  $X$  ASSUME THE MASS NUMBERS ARE APPROXIMATELY EQUAL TO THE ATOMIC MASS IN AMU ANSWER AVERAGE ATOMIC MASS 0.70(70) + 0.30(30) = 65 AMU 1.95(63) + 0.05(66) = 1.26 AMU 0.05(66) = 0.33 AMU 1.95 AMU + 0.33 AMU = 2.28 AMU HOW TO IMPROVE YOUR UNDERSTANDING PRACTICE REGULARLY THE MORE PROBLEMS YOU SOLVE THE MORE COMFORTABLE YOU'LL

BECOME WITH THE CONCEPTS USE VISUAL AIDS DRAW DIAGRAMS TO REPRESENT ATOMS AND THEIR COMPONENTS  
 WORK WITH A STUDY BUDDY EXPLAINING CONCEPTS TO SOMEONE ELSE HELPS SOLIDIFY YOUR UNDERSTANDING  
 UTILIZE ONLINE RESOURCES MANY WEBSITES AND VIDEOS PROVIDE ADDITIONAL PRACTICE PROBLEMS AND  
 EXPLANATIONS KEY POINTS ATOMIC NUMBER Z DEFINES THE ELEMENT AND EQUALS THE NUMBER OF PROTONS  
 MASS NUMBER A IS THE SUM OF PROTONS AND NEUTRONS ISOTOPES ARE ATOMS OF THE SAME ELEMENT WITH  
 DIFFERENT NUMBERS OF NEUTRONS AVERAGE ATOMIC MASS IS A WEIGHTED AVERAGE OF THE MASSES OF AN  
 ELEMENTS ISOTOPES FAQs 1 WHATS THE DIFFERENCE BETWEEN ATOMIC MASS AND MASS NUMBER ATOMIC  
 MASS IS THE WEIGHTED AVERAGE MASS OF ALL ISOTOPES OF AN ELEMENT WHILE THE MASS NUMBER IS THE  
 TOTAL NUMBER OF PROTONS AND NEUTRONS IN A SPECIFIC ISOTOPE 2 CAN THE ATOMIC NUMBER EVER CHANGE  
 NO CHANGING THE ATOMIC NUMBER CHANGES THE ELEMENT ITSELF THIS ONLY HAPPENS THROUGH NUCLEAR  
 REACTIONS 4 3 HOW DO I FIND THE NUMBER OF ELECTRONS IN AN ATOM IN A NEUTRAL ATOM THE NUMBER OF  
 ELECTRONS EQUALS THE NUMBER OF PROTONS ATOMIC NUMBER 4 WHAT IS A MOLE IN CHEMISTRY A MOLE IS A  
 UNIT REPRESENTING A SPECIFIC NUMBER OF ATOMS OR MOLECULES AVOGADROS NUMBER APPROXIMATELY  $6.022 \times 10^{23}$   
 5 WHERE CAN I FIND MORE PRACTICE PROBLEMS YOUR TEXTBOOK ONLINE CHEMISTRY RESOURCES AND  
 DEDICATED CHEMISTRY WEBSITES OFFER NUMEROUS PRACTICE PROBLEMS AND QUIZZES THIS COMPREHENSIVE  
 GUIDE PROVIDES A SOLID FOUNDATION FOR UNDERSTANDING ATOMIC NUMBER AND MASS REMEMBER PRACTICE IS  
 KEY TO MASTERING THIS ESSENTIAL CONCEPT IN CHEMISTRY GOOD LUCK

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