COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE

COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE: MASTERING YOUR CHEMISTRY FINALS WITH CONFIDENCE

COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE—IF YOU'RE GEARING UP FOR YOUR LAST BIG TEST IN GENERAL CHEMISTRY, YOU'VE LANDED IN THE RIGHT PLACE. CHEMISTRY FINALS OFTEN FEEL DAUNTING, PACKED WITH COMPLEX CONCEPTS, CALCULATIONS, AND REACTIONS. BUT WITH A STRATEGIC APPROACH AND THE RIGHT RESOURCES, YOU CAN TURN THAT OVERWHELM INTO MASTERY. THIS GUIDE WILL WALK YOU THROUGH ESSENTIAL TOPICS, STUDY TIPS, AND EFFECTIVE TECHNIQUES TO HELP YOU PREPARE FOR YOUR COLLEGE CHEMISTRY FINAL EXAM WITH CONFIDENCE AND CLARITY.

UNDERSTANDING THE SCOPE OF YOUR COLLEGE CHEMISTRY FINAL EXAM

BEFORE YOU DIVE INTO STUDYING, IT'S CRUCIAL TO UNDERSTAND EXACTLY WHAT YOUR FINAL EXAM WILL COVER. COLLEGE CHEMISTRY FINALS USUALLY ENCOMPASS A BROAD RANGE OF TOPICS FROM THE SEMESTER, INCLUDING ATOMIC STRUCTURE, CHEMICAL BONDING, STOICHIOMETRY, THERMODYNAMICS, KINETICS, EQUILIBRIUM, ACIDS AND BASES, AND SOMETIMES INTRODUCTORY ORGANIC CHEMISTRY.

REVIEW THE SYLLABUS AND PAST EXAMS

YOUR SYLLABUS IS YOUR BEST FRIEND—IT OUTLINES THE KEY CHAPTERS AND CONCEPTS EMPHASIZED THROUGHOUT THE COURSE. CROSS-REFERENCE YOUR NOTES WITH THE SYLLABUS TO IDENTIFY WHICH AREAS YOUR INSTRUCTOR FOCUSED ON MOST. ADDITIONALLY, IF YOU HAVE ACCESS TO PREVIOUS EXAMS OR PRACTICE TESTS, USE THEM TO IDENTIFY COMMON QUESTION TYPES AND RECURRING THEMES. THIS WILL HELP YOU PRIORITIZE YOUR STUDY TIME ON TOPICS THAT MATTER MOST.

KEY TOPICS TO FOCUS ON FOR YOUR COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE

While every instructor's exam may vary, several foundational topics consistently appear on college chemistry finals. Here's a breakdown of these critical areas:

ATOMIC STRUCTURE AND PERIODIC TRENDS

Understanding the basics of atoms—their subatomic particles (protons, neutrons, electrons)—is essential. Make sure you can explain electron configurations, orbital shapes, and the periodic trends such as electronegativity, atomic radius, and ionization energy. These concepts form the backbone for predicting chemical behavior.

CHEMICAL BONDING AND MOLECULAR GEOMETRY

YOU'LL WANT TO BE COMFORTABLE WITH IONIC, COVALENT, AND METALLIC BONDING, AS WELL AS LEWIS STRUCTURES AND FORMAL CHARGE CALCULATIONS. VSEPR THEORY, WHICH HELPS PREDICT THE SHAPES OF MOLECULES, IS A MUST-KNOW. VISUALIZING MOLECULES IN THREE DIMENSIONS OFTEN CLARIFIES WHY CERTAIN COMPOUNDS BEHAVE THE WAY THEY DO.

STOICHIOMETRY AND CHEMICAL REACTIONS

BALANCING CHEMICAL EQUATIONS IS JUST THE START. STOICHIOMETRY INVOLVES QUANTITATIVE RELATIONSHIPS IN REACTIONS—CALCULATING MOLES, MASSES, VOLUMES, AND LIMITING REACTANTS. PRACTICE IS KEY HERE, ESPECIALLY WITH WORD PROBLEMS THAT MIX THEORETICAL CONCEPTS WITH REAL-WORLD APPLICATIONS.

THERMOCHEMISTRY AND THERMODYNAMICS

Grasping energy changes in Chemical Reactions is vital. Make sure you understand enthalpy, entropy, Gibbs free energy, and how these influence reaction spontaneity. Learn to interpret and use calorimetry data and Hess's law for enthalpy calculations.

CHEMICAL KINETICS

This section will test your understanding of reaction rates, rate laws, activation energy, and factors that affect how fast reactions occur. Be comfortable with interpreting graphs and calculating rate constants.

CHEMICAL EQUILIBRIUM

EQUILIBRIUM CONCEPTS CAN BE TRICKY, BUT THEY'RE OFTEN A SIGNIFICANT PART OF FINALS. KNOW HOW TO WRITE EQUILIBRIUM EXPRESSIONS, CALCULATE EQUILIBRIUM CONSTANTS (K), AND PREDICT THE DIRECTION OF REACTIONS USING LE CHATELIER'S PRINCIPLE.

ACIDS, BASES, AND PH

MASTER THE DEFINITIONS OF ACIDS AND BASES (ARRHENIUS, BR) NSTED-LOWRY), UNDERSTAND PH AND POH CALCULATIONS, AND BE ABLE TO WORK WITH STRONG AND WEAK ACIDS/BASES, INCLUDING BUFFER SYSTEMS.

EFFECTIVE STUDY STRATEGIES FOR YOUR COLLEGE CHEMISTRY FINAL EXAM

STUDYING CHEMISTRY EFFECTIVELY REQUIRES MORE THAN JUST REREADING YOUR TEXTBOOK OR NOTES. ACTIVE ENGAGEMENT AND VARIED TECHNIQUES WILL HELP CEMENT YOUR UNDERSTANDING.

CREATE A STUDY SCHEDULE

START BY MAPPING OUT THE WEEKS OR DAYS LEADING UP TO YOUR FINAL. ALLOCATE TIME BLOCKS FOR EACH MAJOR TOPIC, ENSURING YOU REVISIT CHALLENGING AREAS MULTIPLE TIMES. AVOID CRAMMING BY SPREADING YOUR STUDY SESSIONS EVENLY.

USE FLASHCARDS FOR KEY TERMS AND FORMULAS

FLASHCARDS ARE A GREAT TOOL FOR MEMORIZING DEFINITIONS, PERIODIC TRENDS, AND ESSENTIAL FORMULAS LIKE THE IDEAL GAS LAW OR RATE EQUATIONS. DIGITAL APPS LIKE ANKI OR QUIZLET CAN MAKE THIS PROCESS INTERACTIVE AND PORTABLE.

WORK THROUGH PRACTICE PROBLEMS

CHEMISTRY IS A SUBJECT BEST LEARNED BY DOING. SOLVE PROBLEMS FROM YOUR TEXTBOOK, ONLINE RESOURCES, OR PAST EXAMS. FOCUS ON UNDERSTANDING THE METHODOLOGY BEHIND EACH PROBLEM, NOT JUST THE FINAL ANSWER. THIS APPROACH BUILDS PROBLEM-SOLVING SKILLS THAT ARE CRUCIAL DURING TIMED TESTS.

FORM OR JOIN STUDY GROUPS

EXPLAINING CONCEPTS TO PEERS OR HEARING THEIR PERSPECTIVES CAN UNCOVER NEW INSIGHTS. STUDY GROUPS ALSO CREATE ACCOUNTABILITY AND MAKE LEARNING LESS ISOLATING.

UTILIZE ONLINE RESOURCES AND VIDEOS

SOMETIMES A DIFFERENT EXPLANATION CAN MAKE ALL THE DIFFERENCE. WEBSITES LIKE KHAN ACADEMY, CRASHCOURSE, AND VARIOUS YOUTUBE CHANNELS OFFER CLEAR, VISUAL EXPLANATIONS ON COMPLEX CHEMISTRY TOPICS.

DON'T IGNORE LAB MATERIAL

IF YOUR COURSE INCLUDED A LAB COMPONENT, EXPECT QUESTIONS RELATED TO EXPERIMENTS, DATA ANALYSIS, AND SAFETY PROTOCOLS. REVIEW YOUR LAB MANUAL AND NOTES THOROUGHLY.

TIPS FOR TEST DAY SUCCESS

Preparation doesn't end when you open your textbook. The day of your exam, your mindset and strategy can significantly impact your performance.

GET REST AND EAT WELL

A WELL-RESTED MIND IS SHARPER AND MORE FOCUSED. AVOID STAYING UP ALL NIGHT CRAMMING. EATING A BALANCED MEAL BEFORE THE TEST HELPS MAINTAIN ENERGY LEVELS.

READ INSTRUCTIONS CAREFULLY

Take a moment to read through the entire exam before starting. This helps you allocate time wisely and identify questions you can answer quickly.

START WITH WHAT YOU KNOW

TACKLE EASIER QUESTIONS FIRST TO BUILD CONFIDENCE, THEN MOVE ON TO MORE CHALLENGING PROBLEMS. THIS STRATEGY ENSURES YOU COLLECT AS MANY POINTS AS POSSIBLE EARLY ON.

SHOW YOUR WORK CLEARLY

EVEN IF YOUR FINAL ANSWER ISN'T PERFECT, PARTIAL CREDIT CAN ADD UP IF YOUR PROCESS IS CLEAR. WRITE NEATLY AND ORGANIZE YOUR WORK LOGICALLY.

MANAGE YOUR TIME

KEEP AN EYE ON THE CLOCK, AND DON'T SPEND TOO LONG ON ANY ONE QUESTION. IF STUCK, MOVE ON AND RETURN LATER IF TIME PERMITS.

BUILDING LONG-TERM CHEMISTRY SKILLS BEYOND THE FINAL

YOUR COLLEGE CHEMISTRY FINAL EXAM IS A MILESTONE, BUT THE SKILLS YOU DEVELOP STUDYING FOR IT EXTEND FAR BEYOND JUST ONE TEST. MASTERING CORE CONCEPTS AND PROBLEM-SOLVING TECHNIQUES LAYS A SOLID FOUNDATION FOR ADVANCED CHEMISTRY COURSES, PROFESSIONAL EXAMS, AND EVEN CAREERS IN SCIENCE, ENGINEERING, AND HEALTH FIELDS.

Approach your study with curiosity and persistence. Chemistry might seem like a puzzle at first, but with practice, it becomes a fascinating story about how the world works at the molecular level. Keep exploring, keep questioning, and you'll not only ace your final exam but also gain a lifelong appreciation for the science of matter.

BY INTEGRATING FOCUSED REVIEW OF KEY TOPICS, EMPLOYING STRATEGIC STUDY METHODS, AND APPROACHING YOUR EXAM WITH CONFIDENCE, THIS COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE AIMS TO EQUIP YOU WITH THE TOOLS YOU NEED TO SUCCEED. REMEMBER, CONSISTENT EFFORT AND A POSITIVE MINDSET ARE JUST AS IMPORTANT AS THE CONTENT ITSELF. HAPPY STUDYING!

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE MOST IMPORTANT TOPICS TO FOCUS ON FOR A COLLEGE CHEMISTRY FINAL EXAM?

KEY TOPICS TYPICALLY INCLUDE ATOMIC STRUCTURE, CHEMICAL BONDING, STOICHIOMETRY, THERMODYNAMICS, EQUILIBRIUM, ACIDS AND BASES, KINETICS, AND ORGANIC CHEMISTRY BASICS. REVIEWING LECTURE NOTES AND TEXTBOOK SUMMARIES ON THESE AREAS IS ESSENTIAL.

HOW CAN I EFFECTIVELY ORGANIZE MY STUDY TIME FOR A COLLEGE CHEMISTRY FINAL EXAM?

CREATE A STUDY SCHEDULE THAT BREAKS DOWN TOPICS INTO MANAGEABLE SECTIONS, DEDICATING MORE TIME TO CHALLENGING AREAS. USE ACTIVE RECALL AND SPACED REPETITION TECHNIQUES, AND INCLUDE REGULAR BREAKS TO MAINTAIN FOCUS.

WHAT ARE SOME EFFECTIVE STUDY METHODS FOR MASTERING CHEMICAL EQUATIONS AND REACTIONS?

PRACTICE BALANCING CHEMICAL EQUATIONS REGULARLY, WRITE OUT REACTION MECHANISMS, AND USE FLASHCARDS TO MEMORIZE REACTION TYPES AND CONDITIONS. SOLVING PAST EXAM PROBLEMS ALSO HELPS REINFORCE UNDERSTANDING.

HOW IMPORTANT IS UNDERSTANDING THE PERIODIC TABLE FOR THE CHEMISTRY FINAL EXAM?

UNDERSTANDING THE PERIODIC TABLE IS CRUCIAL AS IT HELPS PREDICT ELEMENT PROPERTIES, BONDING BEHAVIOR, AND REACTIVITY TRENDS, WHICH ARE FUNDAMENTAL FOR MANY EXAM QUESTIONS.

ARE THERE ANY RECOMMENDED RESOURCES OR TOOLS TO USE WHILE PREPARING FOR A COLLEGE CHEMISTRY FINAL?

UTILIZE ONLINE PLATFORMS LIKE KHAN ACADEMY, CHEMCOLLECTIVE, AND INTERACTIVE SIMULATIONS. STUDY GUIDES, PAST EXAMS, AND CHEMISTRY APPS FOR PRACTICE PROBLEMS ARE ALSO HIGHLY BENEFICIAL.

WHAT STRATEGIES CAN HELP REDUCE ANXIETY AND IMPROVE PERFORMANCE DURING THE CHEMISTRY FINAL EXAM?

PREPARE THOROUGHLY IN ADVANCE, PRACTICE RELAXATION TECHNIQUES LIKE DEEP BREATHING, GET ADEQUATE SLEEP BEFORE THE EXAM, AND APPROACH THE TEST METHODICALLY BY READING QUESTIONS CAREFULLY AND MANAGING YOUR TIME WISELY.

ADDITIONAL RESOURCES

COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE: STRATEGIES FOR SUCCESS

COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE SERVES AS AN ESSENTIAL RESOURCE FOR STUDENTS AIMING TO MASTER THE COMPREHENSIVE AND OFTEN CHALLENGING MATERIAL COVERED THROUGHOUT A SEMESTER. CHEMISTRY, AS A FOUNDATIONAL SCIENCE, DEMANDS A ROBUST UNDERSTANDING OF BOTH THEORETICAL CONCEPTS AND PRACTICAL APPLICATIONS, MAKING THE FINAL EXAM A CRITICAL CHECKPOINT IN ASSESSING STUDENTS' GRASP OF THE SUBJECT. THIS GUIDE EXPLORES EFFECTIVE STUDY METHODOLOGIES, KEY CONTENT AREAS, AND STRATEGIC APPROACHES TO OPTIMIZE PREPARATION FOR THE COLLEGE CHEMISTRY FINAL EXAM.

UNDERSTANDING THE SCOPE OF THE COLLEGE CHEMISTRY FINAL EXAM

THE COLLEGE CHEMISTRY FINAL EXAM TYPICALLY ENCOMPASSES A WIDE RANGE OF TOPICS, REFLECTING THE CUMULATIVE NATURE OF THE COURSE. FROM ATOMIC STRUCTURE AND PERIODIC TRENDS TO CHEMICAL REACTIONS AND THERMODYNAMICS, STUDENTS MUST BE PREPARED TO DEMONSTRATE BOTH CONCEPTUAL UNDERSTANDING AND PROBLEM-SOLVING SKILLS.

RECOGNIZING THE BREADTH AND DEPTH OF MATERIAL COVERED IS THE FIRST STEP IN CRAFTING AN EFFECTIVE STUDY PLAN.

CORE TOPICS COMMONLY TESTED

WHILE THE SPECIFIC CONTENT MAY VARY DEPENDING ON THE INSTITUTION AND COURSE SYLLABUS, SEVERAL CORE TOPICS ARE CONSISTENTLY INCLUDED IN COLLEGE CHEMISTRY FINALS:

- ATOMIC STRUCTURE AND PERIODICITY: UNDERSTANDING ELECTRON CONFIGURATIONS, PERIODIC TRENDS, AND THE STRUCTURE OF ATOMS.
- CHEMICAL BONDING: ONIC, COVALENT, AND METALLIC BONDS, INCLUDING MOLECULAR GEOMETRY AND POLARITY.
- STOICHIOMETRY: BALANCING CHEMICAL EQUATIONS, MOLE CONCEPT, AND QUANTITATIVE ANALYSIS.
- CHEMICAL THERMODYNAMICS: LAWS OF THERMODYNAMICS, ENTHALPY, ENTROPY, AND GIBBS FREE ENERGY.

- KINETICS AND EQUILIBRIUM: REACTION RATES, ACTIVATION ENERGY, AND LE CHATELIER'S PRINCIPLE.
- ACIDS AND BASES: PH CALCULATIONS, TITRATIONS, AND BUFFER SYSTEMS.
- ELECTROCHEMISTRY: REDOX REACTIONS, GALVANIC CELLS, AND STANDARD ELECTRODE POTENTIALS.

A COMPREHENSIVE COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE ADDRESSES THESE AREAS SYSTEMATICALLY, ENSURING NO FOUNDATIONAL CONCEPT IS OVERLOOKED.

STRATEGIC STUDY TECHNIQUES FOR MASTERY

EFFECTIVE PREPARATION TRANSCENDS MERE MEMORIZATION; IT REQUIRES ACTIVE ENGAGEMENT WITH THE MATERIAL. STUDENTS BENEFIT FROM ADOPTING A MULTIFACETED APPROACH THAT INTEGRATES DIFFERENT LEARNING MODALITIES.

ACTIVE RECALL AND SPACED REPETITION

RESEARCH IN COGNITIVE PSYCHOLOGY UNDERSCORES THE EFFICACY OF ACTIVE RECALL — THE PROCESS OF RETRIEVING INFORMATION WITHOUT PROMPTS — AND SPACED REPETITION, WHICH SPACES OUT REVIEW SESSIONS OVER INCREASING INTERVALS. UTILIZING FLASHCARDS FOR KEY TERMS AND CONCEPTS OR SOLVING PRACTICE PROBLEMS REGULARLY CAN SIGNIFICANTLY ENHANCE LONG-TERM RETENTION.

UTILIZING PRACTICE EXAMS AND PROBLEM SETS

PRACTICE EXAMS SIMULATE THE TESTING ENVIRONMENT AND REVEAL AREAS OF STRENGTH AND WEAKNESS. MANY COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDES INCORPORATE PAST EXAM QUESTIONS OR SAMPLE PROBLEMS THAT REFLECT THE EXAM'S FORMAT AND DIFFICULTY LEVEL. ENGAGING WITH THESE MATERIALS UNDER TIMED CONDITIONS FOSTERS FAMILIARITY AND REDUCES TEST ANXIETY.

CONCEPTUAL UNDERSTANDING THROUGH VISUALIZATION

MANY CHEMISTRY CONCEPTS BENEFIT FROM VISUAL AIDS SUCH AS MOLECULAR MODELS, REACTION COORDINATE DIAGRAMS, AND PERIODIC TABLES. VISUAL LEARNERS, IN PARTICULAR, CAN LEVERAGE THESE TOOLS TO DEEPEN THEIR COMPREHENSION OF ABSTRACT IDEAS, SUCH AS MOLECULAR GEOMETRY OR ENERGY CHANGES DURING REACTIONS.

RESOURCES AND TOOLS FOR OPTIMIZED STUDY

ACCESS TO QUALITY STUDY MATERIALS CAN MARKEDLY INFLUENCE STUDY OUTCOMES. A CURATED COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE OFTEN INCLUDES A COMBINATION OF TEXTBOOKS, ONLINE PLATFORMS, AND COLLABORATIVE STUDY OPTIONS.

TEXTBOOKS AND SUPPLEMENTARY READING

STANDARD TEXTBOOKS LIKE "CHEMISTRY: THE CENTRAL SCIENCE" BY BROWN ET AL. OR "GENERAL CHEMISTRY" BY LINUS PAULING PROVIDE DETAILED EXPLANATIONS AND EXAMPLES. SUPPLEMENTARY READINGS, SUCH AS REVIEW BOOKS AND STUDY

GUIDES TAILORED TO FINAL EXAMS, DISTILL ESSENTIAL INFORMATION AND HIGHLIGHT COMMONLY TESTED TOPICS.

DIGITAL PLATFORMS AND APPS

Online resources offer interactive features such as quizzes, video tutorials, and virtual labs. Platforms like Khan Academy, ChemCollective, and Quizlet facilitate self-paced learning and provide immediate feedback, which is invaluable for reinforcing complex concepts.

STUDY GROUPS AND TUTORING

COLLABORATIVE LEARNING ENVIRONMENTS ENABLE STUDENTS TO ARTICULATE THEIR UNDERSTANDING, CLARIFY DOUBTS, AND GAIN NEW PERSPECTIVES. PEER DISCUSSIONS AND TUTORING SESSIONS CAN HELP DEMYSTIFY DIFFICULT TOPICS AND FOSTER A SUPPORTIVE ATMOSPHERE CONDUCIVE TO ACADEMIC SUCCESS.

BALANCING TIME AND MANAGING TEST ANXIETY

TIME MANAGEMENT AND PSYCHOLOGICAL READINESS ARE OFTEN OVERLOOKED COMPONENTS OF EXAM PREPARATION. A BALANCED SCHEDULE THAT ALLOCATES TIME FOR REVIEW, PRACTICE, AND REST CAN IMPROVE COGNITIVE FUNCTION AND REDUCE BURNOUT.

CREATING A REALISTIC STUDY SCHEDULE

Breaking down the syllabus into manageable segments and assigning specific times for each topic prevents last-minute cramming. Incorporating regular breaks and setting achievable goals can maintain motivation and focus.

TECHNIQUES FOR REDUCING EXAM STRESS

MINDFULNESS EXERCISES, ADEQUATE SLEEP, AND PHYSICAL ACTIVITY ARE PROVEN STRATEGIES FOR ALLEVIATING TEST-RELATED STRESS. FAMILIARITY WITH THE EXAM FORMAT, GAINED THROUGH COMPREHENSIVE STUDY GUIDES AND PRACTICE, ALSO CONTRIBUTES TO CONFIDENCE AND CALMNESS ON EXAM DAY.

COMPARING STUDY APPROACHES: TRADITIONAL VS. MODERN METHODS

THE LANDSCAPE OF EXAM PREPARATION HAS EVOLVED WITH TECHNOLOGICAL ADVANCEMENTS, OFFERING STUDENTS VARIED OPTIONS.

- TRADITIONAL STUDY: RELIES HEAVILY ON TEXTBOOKS, HANDWRITTEN NOTES, AND IN-PERSON LECTURES. THIS METHOD BENEFITS THOSE WHO PREFER STRUCTURED LEARNING AND TACTILE ENGAGEMENT.
- MODERN STUDY: EMBRACES DIGITAL TOOLS, INTERACTIVE SIMULATIONS, AND ONLINE FORUMS, CATERING TO DIVERSE LEARNING PREFERENCES AND ENABLING FLEXIBLE ACCESS.

AN EFFECTIVE COLLEGE CHEMISTRY FINAL EXAM STUDY GUIDE INTEGRATES BOTH METHODS, ALLOWING STUDENTS TO HARNESS THE ADVANTAGES OF EACH.

IN SUM, PREPARING FOR A COLLEGE CHEMISTRY FINAL EXAM NECESSITATES A STRATEGIC BLEND OF CONTENT MASTERY, SKILL DEVELOPMENT, AND PSYCHOLOGICAL PREPAREDNESS. BY LEVERAGING A COMPREHENSIVE STUDY GUIDE TAILORED TO THE EXAM'S DEMANDS, STUDENTS CAN APPROACH THEIR FINALS WITH GREATER CONFIDENCE AND COMPETENCE, ULTIMATELY ENHANCING THEIR ACADEMIC PERFORMANCE IN ONE OF THE MOST DEMANDING SCIENTIFIC DISCIPLINES.

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Direct Admit BSN - Creating a College List - Class of 2026/2030 I know there are a few of us lurking here with current high school juniors who are interested in direct admit BSN programs. So, I am creating this thread for us to share info and

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