

Chemistry Final Exam Review Questions

Useful Values and Equations

Some of the following values and equations may be useful for answering some of the questions and problems.

$$\text{op} = 1.84(\text{°C}) + 32$$

$$\text{speed of light} = 3.00 \times 10^8 \text{ m/s}$$

$$c = \lambda\nu$$

$$R = 0.082057 \text{ L-atm / deg-mole}$$

$$\text{Planck's constant} = 6.63 \times 10^{-34} \text{ J·s}$$

$$E = hv$$

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- One of the following does not describe gases. Which one is it?
 - Expands infinitely.
 - Rigid shape.
 - Easily compressed.
 - Relatively low densities.
- The following properties describe the element, mercury (Hg). Which one is a **chemical** property?
 - Its density is 5.43 g/cm³.
 - It is a silvery-white metal.
 - It is a liquid at 298 K.
 - Mercury(II) sulfide forms when it is exposed to sulfide ions.
- All of the following are properties of SO₂. Which one is a **physical** property?
 - It reacts with oxygen to form SO₃²⁻.
 - It condenses to a colorless liquid at 14°F and atmospheric pressure.
 - It is a strong reducing agent.
 - It reacts with water and oxygen to form an acid.
- Which of the following numbers has 4 significant figures?
 - 0.04309
 - 0.0430
 - 0.0431
 - 0.43900
- How many significant figures should there be in the answer to the following math equation?
 $2.834 + 5.71520 + 2.12 + 178.1 + 250.2619$
 - 3
 - 4
 - 5
 - 6
- How many significant figures should there be in the answer to the following math equation?
 $23.413 \text{ g} + (2.15 \text{ cm} \times 1.1 \text{ cm} \times 3.75 \text{ cm})$
 - 2
 - 3
 - 4
 - 5
- At 25°C, one cm³ of iron has a mass of 7.62 grams. What volume of iron is occupied by 12.5 grams of iron?
 - 0.82 cm³
 - 8.2 cm³
 - 0.164 cm³
 - 16.4 cm³
- A cube of lead has a volume of 6.61 cm³. Its mass is 75.0 grams. What is its density?
 - 3.85 g/cm³
 - 7.41 g/cm³
 - 11.3 g/cm³
 - 22.6 g/cm³

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EW Minium

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Research in Chemistry Education Liliana Mammino,Jan Apotheker,2021-05-17 This volume emphasizes the role of chemical education for development and in particular for sustainable development in Africa by sharing experiences among specialists across the African continent and with specialists from other continents It considers all areas and levels of chemistry education gives specific attention to known major challenges and encourages explorations of novel approaches The chapters in this book describe new teaching approaches approach explorations and in class activities analyse educational challenges and possible ways of addressing them and explore cross discipline possibilities and their potential benefits for chemistry education This makes the volume an up to date compendium for chemistry educators and educational researchers worldwide

Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles Robert Cassidy,Elizabeth S. Charles,James D. Slotta,Nathaniel Lasry,2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based pedagogies in higher education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in between straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation

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Parliamentary Debates (Hansard). Great Britain.

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