

2-4: Precipitation Reactions

1. Start *Virtual ChemLab*, select *Reactions and Stoichiometry*, and then select *Precipitation Reactions* from the list of assignments. The lab will open in the Inorganic laboratory.
2. React each of the cations (across the top) with each of the anions (down the left) according to the data table using the following procedures:

Data Table

	AgNO_3 (Ag^+)	$\text{Pb}(\text{NO}_3)_2$ (Pb^{2+})	$\text{Ca}(\text{NO}_3)_2$ (Ca^{2+})
Na_2CO_3 (CO_3^{2-})	<i>a</i>	<i>f</i>	<i>k</i>
Na_2S (S^{2-})	<i>b</i>	<i>g</i>	<i>l</i>
NaOH (OH^-)	<i>c</i>	<i>h</i>	<i>m</i>
Na_2SO_4 (SO_4^{2-})	<i>d</i>	<i>i</i>	<i>n</i>
NaCl (Cl^-)	<i>e</i>	<i>j</i>	<i>o</i>

- a. Drag a test tube from the box and place it on the metal test tube stand. You can then click on the bottle of Ag^+ ion solution on the shelf to add it to the test tube.
 - b. Click on the **Divide** button on the edge of the lab bench four times to make four additional test tubes containing Ag^+ . With one test tube in the metal stand and four others in the blue rack, click on the Na_2CO_3 bottle on the reagent shelf and observe what happens in the window at the top left. Record your observation in the table above. If the solution remains clear, record NR for no reaction. Drag this test tube to the red disposal bucket on the right.
 - c. Drag a second tube from the blue rack to the metal stand. Add Na_2S , record your observations and discard the tube. Continue with the third, fourth and fifth tube, but add NaOH , Na_2SO_4 , and NaCl respectively. Record your observations and discard the tubes. When you are finished, click on the red disposal bucket to clear the lab.
 - d. Repeat steps a-c for five test tubes of Pb^{2+} and Ca^{2+} . Record your observations in the data table. If no precipitate forms write NR for no reaction.
3. *What happens in grid space d? What other reactions give similar results? Is it necessary to write an equation when no reaction occurs? Explain.* _____

 4. *Write balanced equations for all precipitation reactions you observed.*
 - a.
 - b.
 - c.

Virtual Lab Precipitation Reactions Answers

Katrin Zwirglmaier



Virtual Lab Precipitation Reactions Answers:

Instructors Manual to Lab Manual Ralph Petrucci, William Harwood, Geoffrey Herring, 2001 **Make the Grade in AS and A2 Chemistry** George Facer, 2003 Make the Grade offers comprehensive exam support for AS and A2 Chemistry Part of the Nelson Advanced Science series it provides activities and questions for use throughout the course with exam questions including synoptic questions to help students fully prepare for examinations **Acid Precipitation**, 1986 *Green Chemistry Laboratory Manual for General Chemistry* Sally A. Henrie, 2015-03-18 Green chemistry involves designing novel ways to create and synthesize products and implement processes that will eliminate or greatly reduce negative environmental impacts Providing educational laboratory materials that challenge students with the customary topics found in a general chemistry laboratory manual this lab manual enables students to see how green chemistry principles can be applied to real world issues Following a consistent format each lab experiment includes objectives prelab questions and detailed step by step procedures for performing the experiments Additional questions encourage further research about how green chemistry principles compare with traditional more hazardous experimental methods Cumulated Index Medicus, 1964 U.S. Government Research Reports, 1959 **Crime Laboratory Digest**, 1990 *Methods in Biotechnology* Seung-Beom Hong, M. Bazlur Rashid, Lory Z. Santiago-Vázquez, 2016-05-12 As rapid advances in biotechnology occur there is a need for a pedagogical tool to aid current students and laboratory professionals in biotechnological methods *Methods in Biotechnology* is an invaluable resource for those students and professionals *Methods in Biotechnology* engages the reader by implementing an active learning approach provided advanced study questions as well as pre and post lab questions for each lab protocol These self directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level utilizing critical thinking and troubleshooting skills This text is broken into three sections based on level *Methods in Biotechnology* Advanced *Methods in Biotechnology* I and *Advanced Methods in Biotechnology* II Each section contains 14 22 lab exercises with instructor notes in appendices as well as an answer guide as a part of the book companion site This text will be an excellent resource for both students and laboratory professionals in the biotechnology field Princeton Review AP Chemistry Premium Prep, 26th Edition The Princeton Review, 2024-08-06 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Chemistry Premium Prep 27th Edition ISBN 9780593518236 on sale August 2025 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product Physics Briefs, 1989 **Basic Medical Lab Techniques-Iml 4e** Estridge, Ruth Reynolds, 2000-05 ChemDiscovery Teacher Edition Olga I. Agapova, 2002 **ERDA Energy Research Abstracts**, 1987 **Energy Research Abstracts**, 1993 Scientific and Technical Aerospace Reports, 1988 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently

been entered into the NASA Scientific and Technical Information Database **Drug Delivery Systems** Dr. Amit Kumar, Mrs. T. Jaghatha, Amit Kumar, 2025-10-09 M Pharm First Semester According to the syllabus based on Pharmacy Council of India *Nuclear Science Abstracts* ,1974 **Physiological Abstracts** ,1918 **Fusion Energy Update** ,1986

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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is 60° and the refraction angle is 35° from snell s law $\sin \theta_1 \sin \theta_2 = v_2 \sin \theta_1 = v_1 \sin \theta_2$ then $\sin \theta_2 = \frac{v_2 \sin \theta_1}{v_1} = \frac{35}{60} \sin 60^\circ$ and the speed of light in the block is 2.0×10^8 ms⁻¹ b the frequency of the light does not change upon refraction

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situations in which light bounces off matter and the law of refraction for situations in which light passes through matter in this section we consider the geometric optics of reflection

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