Masses and springs lab answers

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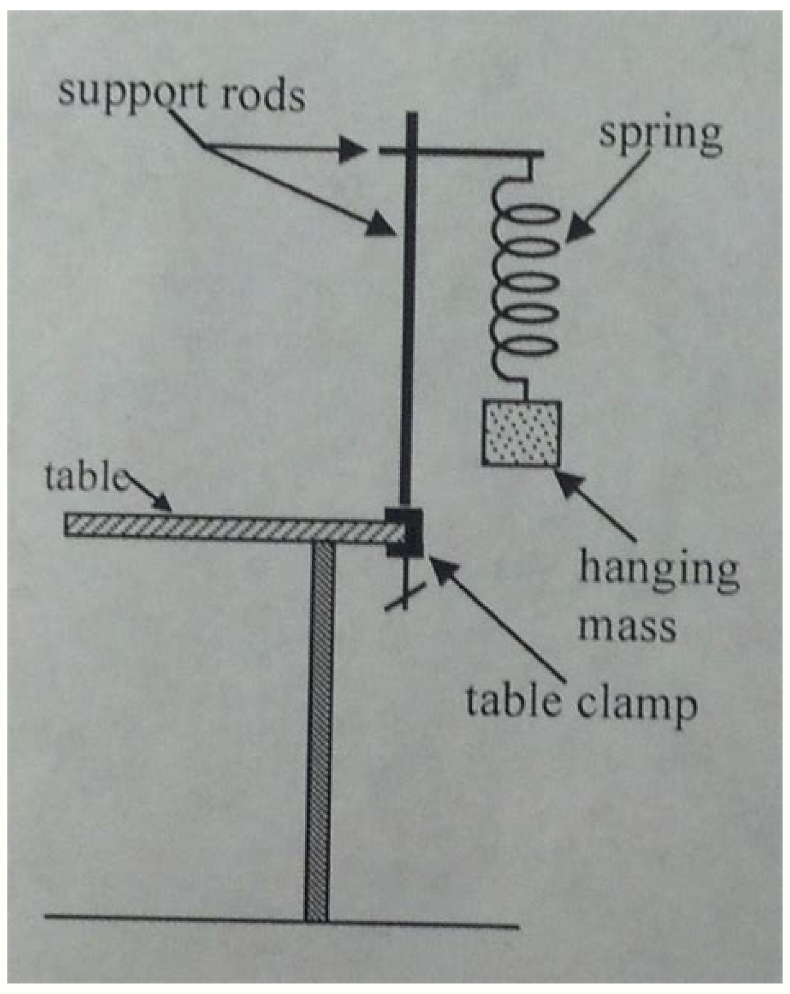

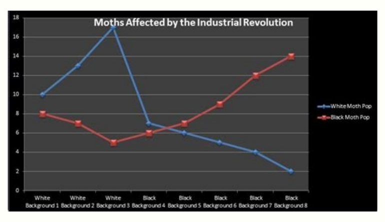

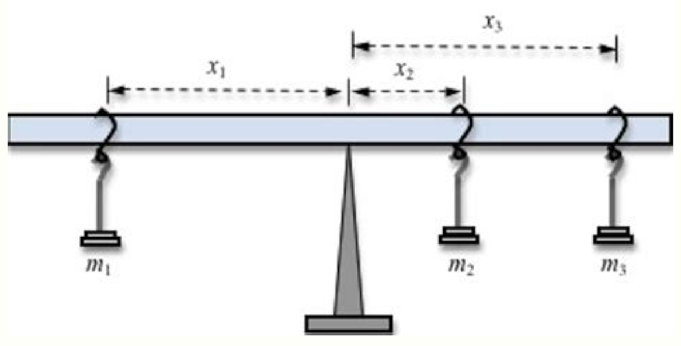

Chapter 20 Worksheet: Redox

I. Determine what is oxidized and what is reduced in each reaction. Identify the oxidizing agent and the reducing agent, also.

1. $2Sr + O_2 \longrightarrow 2SrO$
2. $2Li + S \longrightarrow Li_2S$
3. $2Cs + Br_2 \longrightarrow 2CsBr$
4. $3Mg + N_2 \longrightarrow Mg_3N_2$
5. $4Fe + 3O_2 \longrightarrow 2Fe_2O_3$
6. $Cl_2 + 2NaBr \longrightarrow 2NaCl + Br_2$
7. $Si + 2F_2 \longrightarrow SiF_4$
8. $2Ca + O_2 \longrightarrow 2CaO$
9. $Mg + 2HCl \longrightarrow MgCl_2 + H_2$
10. $2Na + 2H_2O \longrightarrow 2NaOH + H_2$

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11. Give the oxidation number of each kind of atom or ion.

    a. sulfate b. Sn c. S^{2-} d. Fe^{3+} e. Sn^{4+} f. nitrate g. ammonium

12. Calculate the oxidation number of chromium in each of the following.

    a. Cr_2O_3 b. $Na_2Cr_2O_7$ c. $CrSO_4$ d. chromate e. dichromate

13. Use the changes in oxidation numbers to determine which elements are oxidized and which are reduced in these reactions. (Note: it is not necessary to use balanced equations)

    a. $C + H_2SO_4 \longrightarrow CO_2 + SO_2 + H_2O$

    b. $HNO_3 + HI \longrightarrow NO + I_2 + H_2O$

    c. $KMnO_4 + HCl \longrightarrow MnCl_2 + Cl_2 + H_2O + KCl$

    d. $Sb + HNO_3 \longrightarrow Sb_2O_3 + NO + H_2O$

14. For each reaction in problem 13, identify the oxidizing agent and reducing agent.

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Advanced Placement / Physics In this lab, students will use a motion sensor to determine the physical properties that affect the period of oscillation of a hanging mass and spring system. Then, students will use their data to support a mathematical model relating period, mass, and spring constant. PreviewDownloadStudent Files Standards Correlations IB Topics AP Topics 4.1; 9.1 3.B.3.1; 2; 3; 4 Featured Equipment The PASPORT Motion Sensor accurately measures the position, velocity, and acceleration of a target. It can be used to track the motion of balls, carts, people, and more. The Mass and Hanger Set includes 4 hangers and 27 weights that range from 0.5 g to 100 g. Many lab activities can be conducted with our Wireless, PASPORT, or even ScienceWorkshop sensors and equipment. For assistance with substituting compatible instruments, contact PASCO Technical Support. We're here to help. Copyright © 2018 PASCO Copyright Disclaimer: Section 107 of the Copyright Act of 1976 makes allowance for “fair use” for purposes of teaching, scholarship, education and research. Reproduction under any other circumstances, without the written consent of PASCO, is prohibited. Page 2 Legacy Notice: The following collection of experiments utilize older generation PASCO sensors and equipment. View the updated versions of these experiments » The following is a complete list of lab activities from PASCO's Advanced Physics Through Inquiry 1 Teacher Guide. Each activity includes an editable student handout, software data files, IB/AP-alignment details, and a Teacher Guide. The experiments in this manual can be performed using individual PASCO sensors, sensor bundles, or lab stations. A complete materials list is available below. The materials for each experiment are also listed within the student handouts. Product Detail Materials List Overview of the teacher guide and it's structure and content, the data collection system, IBO support, and general lab safety procedures. In this lab, students use a motion sensor to measure the position and velocity of a cart on a track to determine the relationship between position,... In this lab, students use a motion sensor to determine the relationship between a system's mass, acceleration, and the net force being applied... In this lab, students use a photogate and pulley system to determine the mathematical relationship between the acceleration of an Atwood's... In this lab, students use a motion sensor and a force sensor to determine the static and kinetic friction coefficients between two contacting... In this lab, students use a photogate and mini launcher to measure the variables that affect the two-dimensional motion of a projectile launched... In this lab, students use a photogate and dynamics system to explore how a cart's kinetic energy, gravitational potential energy, and total mechanical... In this lab, students use a photogate and dynamics system to investigate the relationship between the change in kinetic energy of an object experiencing... In this lab, students use a motion sensor and a dynamics system to demonstrate that linear momentum and kinetic energy are conserved in an elastic... In this lab, students use a motion sensor, force sensor, and dynamics system to investigate the relationship between the change in momentum of... In this lab, students use rotary motion sensors to determine the mathematical relationship between torque, rotational inertia, and angular acceleration... In this lab, students use a force sensor and tension protractor to demonstrate that the sum of the forces acting on an object in static translational... In this lab, students will use a motion sensor to determine the physical properties that affect the period of oscillation of a hanging mass and... In this lab, students will use a photogate and pendulum to determine the physical properties of a simple pendulum that affect its period. Then,... In this lab, students will use a resonance air column, tuning forks, and the principles of resonance and standing waves for a pipe with one closed... In this lab, students will use a voltage–current sensor and an AC/DC electronics laboratory to construct simple resistor circuits with resistors... The requested URL was not found on this server. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request. Apache/2.4.41 (Ubuntu) Server at senaesteveslab.umassmed.edu Port 443

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