Lecture 28 CH101 A1 (MWF 9 am) Fall 2016 Copyright © 2016 Dan Dill dan@bu.edu Lecture 28 CH101 A1 (MWF 9 am) [TP] Atom X that has an orange emission line (650 nm) with photon energy Monday, November 14, 2016 $E_{\text{orange}} = hc/(650 \text{ nm})$ and a green emission line (510 nm) with photon energy $E_{\text{green}} = hc/(510 \text{ nm})$. Which of the following statements are true about a • Complete: Using $\Delta_{\rm b} H$'s to estimate $\Delta_{\rm r} H$ single emission process of atom X? • If some substances are not gases, using $\Delta_{\rm b} H$'s works poorly 20% 1. An atom of X can emit light with any amount of energy. Begin ch 8: Modeling atoms and their electrons 20% 2. An atom of X can emit light with energy between E_{orange} and E_{green} . Review: What light is and how it interacts with matter 20% 3. An atom of X can emit light in multiples of E_{orange} or E_{green} . Natural frequencies of atoms 20% 4. An atom of X can emit light only of E_{orange} or E_{green} . Next lecture: Light and matter exchange energy smoothly and slowly; 20% 5. None of the above. Light energy is exchanged in tiny amounts called photons











Lecture 28 CH101 A1 (MWF 9 am) Fall 2016	Copyright © 2016 Dan Dill dan@bu.edu
Review: What light is and how i	
BOSTON	20















