

Chemistry 2 Student Workbook Answers to Worksheets

Teacher Notes

UNIT 3

Worksheet 01 Crossword—exploring energy

ACROSS

- 3 Coal seam
- 5 Enthalpy
- 7 Exothermic
- 11 Cathode
- 12 Renewable
- 14 Thermochemical
- 18 Salt bridge
- 19 Secondary
- 21 Hygroscopic
- 22 Fuel
- 23 Anode

DOWN

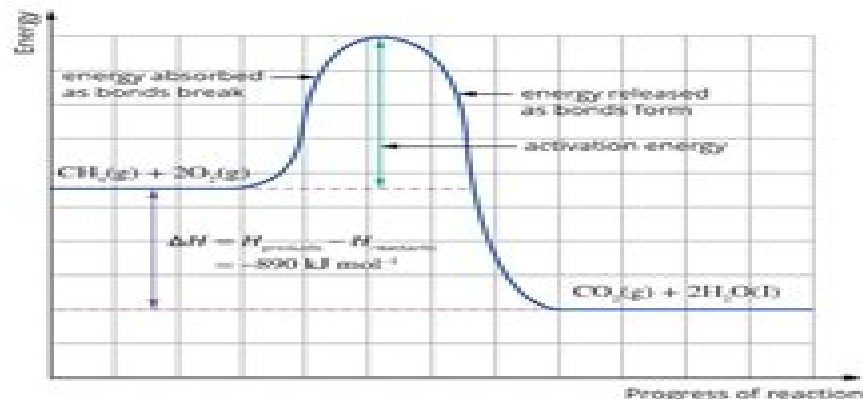
- 1 Galvanic
- 2 Biofuel
- 4 Spontaneous
- 6 Biogas
- 8 Joule
- 9 Oxidation
- 10 Greenhouse
- 13 Activation
- 15 Electrolyte
- 16 Viscosity
- 17 Reduction
- 20 Fossil
- 22 Fuel

Worksheet 02 Combustion of fuels—thermochemical equations and specific heat capacity

- 1 The combustion of fuels releases a significant quantity of energy that can be used as an **energy source**. **Chemical energy** is the energy stored in the bonds between atoms and between molecules arising from attractions and repulsions between subatomic particles. It is called **enthalpy** and is represented by the symbol, ***H***. All combustion reactions are **exothermic** reactions. In such reactions, the enthalpy change, symbol **ΔH** , has a **negative** sign.

$$\Delta H = H_{\text{products}} - H_{\text{reactants}}$$

2



Lesson 2 Pearson Chemistry Answers

Showick Thorpe Edgar Thorpe



Lesson 2 Pearson Chemistry Answers:

The Burning Answer Keith Barnham, 2015-05-15 Our society faces a choice We could be enjoying a sustainable lifestyle but we have chosen not to In three generations we have consumed half the oil produced by photosynthesis over eight million generations In two generations we have used half our uranium resources With threats from global warming oil depletion and nuclear disaster we are running out of options Solar power as Keith Barnham says is our necessary solution Barnham explains that the roots of solar energy lie in a little known equation $E = hf$ an equation which was coincidentally celebrated and explained to the world by Einstein in the same year he discovered $E = mc^2$ He alleges that the former equation has been overlooked in favor of the latter much to our detriment and Barnham is here to offer us a solution We can still turn things around and solar energy is the key In this provocative inspiring passionately argued book Keith Barnham outlines actions that any one and all of us can take to make an impact now and on future generations The Burning Answer is a solar manifesto for the new climate aware generation and a must read for climate change skeptics **Oxide Minerals** Donald H.

Lindsley, 2018-12-17 Volume 25 of Reviews in Mineralogy was published to be used as the textbook for the Short Course on Fe Ti Oxides Their Petrologic and Magnetic Significance held May 24-27 1991 organized by B R Frost D H Lindsley and SK Banerjee and jointly sponsored by the Mineralogical Society of America and the American Geophysical Union It has been fourteen and a half years since the last MSA Short Course on Oxide Minerals and the appearance of Volume 3 of Reviews in Mineralogy Much progress has been made in the interim This is particularly evident in the coverage of the thermodynamic properties of oxide minerals nothing in Volume 3 while in contrast Volume 25 has three chapters 6 7 and 8 presenting various aspects of the thermodynamics of oxide minerals and other chapters 9 11 12 build extensively on thermodynamic models The coverage of magnetic properties has also been considerably expanded Chapters 4 8 and 14 Finally the interaction of oxides and silicates is emphasized in Chapters 9 11 12 13 and 14 Because Volume 3 is out of print and will not be readily available to newcomers to our science as much as possible we have tried to make Volume 25 a replacement for rather than a supplement to the earlier volume Chapters on crystal chemistry phase equilibria and oxide minerals in both igneous and metamorphic rocks have been rewritten or extensively revised *Problems in Structural Inorganic Chemistry* William E.

Hatfield, Richard A. Palmer, 1971 *The Pearson General Studies Manual 2009, 1/e* Showick Thorpe Edgar Thorpe, 2009 This latest edition of The Pearson General Studies Manual continues to provide exhaustive study material for the General Studies paper of the UPSC Civil Services Preliminary Examination This student friendly book has been completely revised thoroughly updated and carefully streamlined and is strictly exam centric In this new edition a large number of new boxes and marginalia with additional and relevant information have been added to provide cutting edge information to the aspirant Readers will find that important facts and information have been presented in the form of well structured tables and lists

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