

Atomic Emission Spectra Lab with Key

Teacher Notes

This lab is designed to be a fun, hands-on activity for students. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom. The lab is designed to be a fun, hands-on activity for students. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

Use this lab as a demonstration or as a student activity. The lab is designed to be a fun, hands-on activity for students. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

Be careful handling the gas tubes. Only touch them off the burner and not the burner itself. They can get very hot. Do not touch them if they are glowing. Do not touch them if they are glowing.

You can also use this lab as a student activity. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

1. The atomic emission spectra of hydrogen, helium, and neon are shown below. The emission spectra of these elements are shown below. The emission spectra of these elements are shown below.

2. The emission spectra of hydrogen, helium, and neon are shown below. The emission spectra of these elements are shown below. The emission spectra of these elements are shown below.

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Gas Sample	Observed Emission Lines	Observed Wavelengths (nm)
Hydrogen (H ₂)	4 visible lines (violet, blue-violet, yellow-green, red)	410.1, 434.0, 486.1, 656.3
Helium (He)	5 visible lines (violet, blue-violet, yellow-green, red)	402.6, 437.9, 504.8, 587.6, 667.8
Neon (Ne)	5 visible lines (violet, blue-violet, yellow-green, red)	444.1, 504.8, 587.6, 667.8, 780.0

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Virtual Chem Lab 5 Atomic Emission Spectra

Victor M. Corman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Virtual Chemlab Brian F. Woodfield, Matthew C. Asplund, Steven Haderlie, 2006 Contains a full virtual lab environment as well as the pre arranged labs that are referenced in the workbook and at the end of the chapter in the textbook Virtual ChemLab can be run directly from the CD or installed on the student's computer **Instructor's Manual** Brian F. Woodfield, Matthew C. Asplund, 2006 NEW Click here to visit the Virtual ChemLab Frequently Asked Questions FAQ document This Instructor's Lab Manual Workbook is similar to the Student Lab Manual Workbook and additionally contains an overview of the full capabilities of the Site License version of Virtual ChemLab installation instructions and the answers for the laboratory assignments provided in the student laboratory workbook This product is available within Virtual ChemLab General Chemistry Instructor Lab Manual Workbook and Student CD Combo Package v2 5 0 13 228010 8 Valuepack and or should be ordered in conjunction with Virtual ChemLab General Chemistry Instructor Site License CD v2 5 0 13 185749 5

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Electro-optic, Integrated Optic, and Electronic Technologies for Online Chemical Process Monitoring Mahmoud Fallahi,Robert J. Nordstrom,Terry R. Todd,1999 This collection of papers covers a wide range of issues and topics relevant to electro optic integrated optic and electronic technologies for online chemical process monitoring

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