



Pharmacy Technician Lab Kits

- Science Interactive's solution to competency based science education for economically minded institutions.
- Our solutions are built upon Science Interactive's core beliefs: providing students access to anytime, anywhere learning while providing exceptional hands-on experimentation.
- Develops the skills necessary for STEM articulation.
- Students gain exposure and experience with the core concepts and techniques required for continuing education and workforce development.
- With content tailored for student comprehension and success, each student is provided with a structured experience to build self confidence, critical thinking skills, and experimentation techniques.

Pharmacy Technician:

Customer Service	Compounding – Creams and Ointments
Using Drug References	Compounding – Solutions and Suspensions
Validating DEA Numbers	Compounding – Emulsions
Inventory Management	Drug Dispensing Systems
Measurement Systems	Preparing Hospital Drugs
Repackaging	Filling Floor Stock
Prescription Forms and Labeling	Medication Reconciliation
Equipment Practice	Emergency Scenarios
Aseptic Technique	

Number of Experiments: 17



Digital Lessons. Hands-On Experiments.



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Standard Lessons:

Experiment	Student Hands-On Activities
Customer Service	<ul style="list-style-type: none">• Describe best practices for good customer service.• Summarize the Health Insurance Portability and Accountability Act of 1996 and discuss its impacts on customer service in a pharmacy.• Identify the information needed to create a patient profile.
Using Drug References	<ul style="list-style-type: none">• Discuss common medical references used in pharmacies.• Describe the red flags that indicate an unreliable internet resource.
Validating DEA Numbers	<ul style="list-style-type: none">• Discuss the classification of the different DEA drug schedules.• Explain the purpose and use of DEA numbers.
Inventory Management	<ul style="list-style-type: none">• Discuss pharmacy inventory management.• Describe the process of reconciling a shipment.
Measurement Systems	<ul style="list-style-type: none">• Explain the differences between the metric system, apothecary system, and household system of measurement.• Discuss the methods for converting between and within the different measurement systems.• Describe the use of the alligation alternative method to determine the amount of each ingredient needed to create a new solution.
Repackaging	<ul style="list-style-type: none">• Discuss the repackaging of medication into different types of unit dose packaging.• Outline the process for calculating the correct volume of a dose of liquid medication.
Prescription Forms and Labeling	<ul style="list-style-type: none">• Describe the elements of a drug prescription form and label.• Identify common abbreviations used in drug prescriptions.
Equipment Practice	<ul style="list-style-type: none">• Identify common pharmacy laboratory equipment.• Describe proper techniques for using pharmacy lab equipment.
Aseptic Technique	<ul style="list-style-type: none">• Discuss non-sterile and sterile compounding techniques.• Summarize USP <797> Guidelines and how they relate to personal protective equipment.
Compounding – Creams and Ointments	<ul style="list-style-type: none">• Describe scenarios in which a compounded pharmaceutical might be prescribed.• Define trituration and geometric dilution.• Explain the differences in properties and uses for ointments and creams.
Compounding – Solutions and Suspensions	<ul style="list-style-type: none">• Discuss the properties that differentiate a solution and a suspension.
Compounding – Emulsions	<ul style="list-style-type: none">• Define emulsion and explain what differentiates an emulsion from other liquid mixtures.• Differentiate between the dry gum method and the wet gum method of producing a primary emulsion.
Drug Dispensing Systems	<ul style="list-style-type: none">• Explain the use of PAR levels in drug dispensing systems.• Discuss the use of hospital crash carts and automated dispensing systems.
Preparing Hospital Drugs	<ul style="list-style-type: none">• Describe the different preparations of parenteral drugs in hospital pharmacies.• Discuss the use of Investigational New Drugs in hospitals
Filling Floor Stock	<ul style="list-style-type: none">• Explain the purpose of maintaining a floor stock.• Describe the process of filling a floor stock request.• Discuss the use of a perpetual inventory record to track controlled substances.
Medication Reconciliation	<ul style="list-style-type: none">• Discuss the process and importance of medication reconciliation.
Emergency Scenarios	<ul style="list-style-type: none">• Describe possible emergency scenarios that may be encountered in a pharmacy.• Discuss proper course of action to take during emergency scenarios within a pharmacy.