

Pharmacology Goals & Activities

- Discover basic terms associated with pharmacology.
- Distinguish between pharmacy and pharmacology and the subdivisions of each field.
- Explore laws and regulations governing pharmacists, pharmacy aides, and pharmacy technicians.
- Review pathogens and disease.
- Examine discovery medicine.
- Research medications discovered over a hundred years ago that are still used today.
- Conduct an experiment to determine the age of aspirin.
- Explore the sections and usage of a PDR.
- Use a PDR.
- Extract and synthesize aspirin from willow bark.
- Examine drugs to relieve pain.
- Determine principles of drug administration.
- Explore the benefits of novel drug administration.
- Discover new and potential methods of drug administration.
- Review arithmetic necessary for dosage calculations.
- Discover the systems of measurement used in pharmacology and how to convert between systems.
- Discover formulas commonly used in pharmacology.
- Compute oral dosages of tablets, capsules, and liquid drugs.
- Calculate parenteral doses of drugs.
- Calculate dosages based on weight.
- Convert temperatures between Fahrenheit and Celsius.
- Calculate pediatric dosages.
- Review Roman numerals.
- Examine abbreviations used in pharmacology.
- Discover the elements of a prescription and the American Medical Association's recommendations for prescription writing.
- Determine how safety features are used to avoid fraudulent prescriptions.
- Interpret prescriptions and drug labels.
- Explore anti-infective drugs.
- Explore the history, usage, and action of antibiotics.
- Conduct an experiment to test antibiotic sensitivity.
- Examine antiviral and antifungal drugs.
- Consider the popularity of dietary supplements and their potential effects on prescription medicines.
- Determine how the FDA evaluates drugs for approval.
- Consider the differences between observational and experimental studies and determine how each is used.
- Investigate clinical trials.
- Examine the phases of clinical trials and determine what information is gathered during each phase.
- Determine what programs the FDA has implemented to speed the availability of new drugs to critically ill patients.
- Examine topical drugs.
- Explore otic and ophthalmic drugs.
- Conduct research to identify a problem related to pharmacology that is of immediate local importance.

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