

How to Turn Kids on to Science Workshop Outline

8:00 AM to 8:30 AM Good Morning! Registration, Coffee, Preview

Come on in and pick out a seat. We have danish and coffee for you and there is a huge table full of retail materials set up for you to peruse. We will start at 8:30, make yourself comfortable until then and thanks for coming to share the day with us.

8:30 AM to 8:45 AM Welcome, Administrative Stuff, Workshop Overview

Greetings and welcome to the workshop.

Hotel Information

Hotel Name: _____ Hotel Phone: _____

Cell Phones & Workshop Etiquette

We will hold all non-emergency calls for you until the next break. If you have a cell phone with you, please either turn it off or switch it to a non-ringing mode. Failure to do so will probably result in the speaker answering the phone for you and making some rather obnoxious remark about spontaneous proctology and the Zen of jalapeno/strawberry colonics. You have been duly warned.

Program Overview & Materials Lists

The Table of Contents, presents a thorough overview of the workshop lab activities and topics in the order they are likely to be presented. We have also included a list all of the materials you should have picked up at the door; check the list against the goodies you have. There is also a list all of the materials, by demo, that the speaker will be using today.

We will plow through about 40-45 labs today. Many of them you will do at your table and they are designated with a bold **Lab** in front of the activity. There will also be **Demos** presented by your speaker and finally, some lab activities with living things or that are paper exercises will simply be discussed and reviewed, those have **Disc** in front of them.

CEU's

We offer 0.55 hours of Continuing Education Credit in cooperation with the University of Texas at Arlington. You will find a sheet that explains the program in your pile of handouts. If you have any questions, concerns, or would like to register for graduate credit, you can find us at the registration desk prior to the first break and at the back table.

Materials and Resources for Sale

Along the back tables are larger quantities of the materials that we will be using during the workshop for the next couple of days. You should have picked up a price list as you entered the workshop, if you do not have one see the workshop host at break and they will be happy to hand you one. Items are discounted off the catalog price at the workshop plus you save the shipping and handling. You also have a coupon worth 10% off your purchase for any purchases made after the workshop. The coupon is not good during this workshop.

How to Turn Kids on to Science Workshop Outline

Evaluations & Drawings

We would like you to fill out both sides of the yellow evaluation form prior to the start of Session 5, which is immediately after lunch the second day. Place the completed form in the box found on _____ . We will select _____ name(s) from the box promptly at 1:00 P.M. You must be present to win. If your name is drawn, you may select a free T shirt, apron, tote bag, or book to take with you from the workshop.

Lunch

The lunches are no host lunches. We will break at 11:45 AM to give you a head start over the business class. Please be back by 1:00 PM. The staff at the hotel has recommended the following dining choices, near the hotel; _____ , _____ , _____ , and _____ .

8:45 AM to 10:00 AM • Session 1 Science Safety

Rationale: It usually takes a week or two to get things off the ground at the start of the school year in August. Then, Labor Day hits, so why not start the school year off with the basics; science safety, the scientific method, and critical thinking skills. Then, jump in.

Demo: Club Moss Explosions
Handout: Science Safety Overview

Lab: Eco Peanut Puzzle
Handout: MSDS Primer

Under the Table Educational Theory

Lab: Bloody Fingerprints
Handout: Zingers! a.k.a. Discrepant Events

Lab: Helicopter Drop
Handout: Your Deliberate Idiot Privilege and then ...
Handout: The Brain Pump

Demo: Despanning Balloon
Handout: Why Science Never Sucks. Ever

Lab: Loop Planes
Handout: Open Ended Questions

How to Turn Kids on to Science Workshop Outline

Demo: Sewer Maggots

Handout: Are You Guys Comedians or Scientists?

Seeing the Light ... One Way or Another

Demo: Theatre Fog Fusion

Handout: Teaching vs. Educating

Lab: Balloon Eyeballs

Lab: Painting with Sunshine

10:00 AM to 10:20 AM • Morning Break

10:20 to 11:45 • Session 2

Creating a Target Rich, Classroom Environment

Lab: Buddha's Temple

Demo: Gyro Rings

Handout: Discovery Centers

Puzzle: Ivory Soap Souffle'

Project: Mealworm Farming

Handout: Live Animals: Zoo on the Loose

Lab: Yeasty Beasty Burps

Lab: Musical Rulers & Laser Cannons

Handout: Connecting Science to the Real World

Lab: Avalanche in a Cup aka Quick Clot

Demo: Pouring Sound

Lab: Chicken in a Cup

Handout: Dinosaur in a Can and the Guaranteed "A"

Demo: Straw Flutes & s'Trombones

Handout: American (Scientific) Idol

How to Turn Kids on to Science Workshop Outline

11:45 AM to 1:00 PM • No Host Lunch

We are going to shoot you out the door a little early so that you can beat all of the business folks. Please be back promptly at 1:00 PM. The room will remain open if you brought lunch to eat with you and if you are leaving, please take your valuables.

1:00 PM to 2:15 PM • Session 3 Science Assemblies

Handout: 2 Assembly Outlines

Science Safety & Chemistry/Physics

Lab: Foam Gnome Races

Demo: Metal Flame Tests

Lab: Orange Sorbet

Demo: Surprise Fire

Lab: Instant Sunshine

Demo: The Giant, Blood-Sucking, Silcon, Fire Fly

Creativity Carnivals

Handout: 2 Creativity Carnival (Family Science Night) Outlines

Sound/Chemistry/Human Body/Flight

Lab: Super Slurper

Demo: Singing Rods

Lab: Color Changing Flowers

Demo: Lectron Do and Soap Bubble Races

Contest: Ping Pong Pass Out

Lab: Snot to Go!

2:15 PM to 2:25 PM • Afternoon Break

How to Turn Kids on to Science Workshop Outline

2:25 PM to 3:30 PM • Session 4

Putting Your Science Lab in Gear

Step 1/Curriculum: What to Teach: Standards and Labs

Step 2/Materials: Hands-on Means Lab Supplies

Kits

Lab Fees

Science Showers

Step 3/Preparing Your Lab Room

Organizing Supplies

Lab Schedules and Lab Tables

Discovery Centers, Zoos, & Aquariums

Step 4/Training: You Need Help

Beaker Buddies/Student Assistants

Parent Volunteers

Step 5/Lab Procedure

Step 6/Evaluating Your Program

If You Found It Outside, It's Probably a Lab

Discovery Center Idea: Wood Cookie Tales

Rock Profile: Pumice

Lab: Flattened Ferns & Distilled Fossils

Take Home Project: Owl Pellet Boneyard

When There is No Wheel ... The Invention Convention

Demo: Atoms in a Cage

Lab: Paper Clip Drip

Demo: Diet Coke & Mentos Volcano

Toys That Teach Science, Game On ... Science Olympiad!

Demo: Xzylo. The Loop Plane Perfected

Lab: Ping Pong Poppers

... Questionable Judgement: Marshmallow Shooters

3:30 PM • Thanks for Coming! Drive Safely
Have Fun with the Kids