

2009 Indiana 4-H Youth & Adult Congress – 4-H SET Lesson Plan

Lesson Title: Science is Fun!

Objectives: Introduction of the Scientific Method

Audience: Youth grades 3-12

Supplies Needed: Dice, worksheets, string, 3 sizes of balloons, masking tape, drinking straws

Time Required: 15-20 minutes per activity

Procedures/Directions:

Dice Toss

Make predictions on how many times you will roll odds, evens, doubles, etc. in a set number of rolls, then roll the dice and record your data on worksheet provided. You can also take it a step further and graph the data.

Traffic Patterns

Make predictions on the traffic on a road or in a parking lot. Then count and record the number of cars, trucks, 4-H license plates, other specialty license plates, colors of vehicles, number of people in vehicles, number of cell phone users, speed, etc.

What makes a rocket shoot upward into the air?

Make predictions on how far each balloon will travel when the air is released from it. We will tie a string with a straw threaded onto the string to two chairs. We will blow up three different sizes of balloons and tape one at a time to the straw. We will measure the distance each balloon travels when the air is released and compare to predictions made.

Save the Environment

Figure the cost of packaging for a variety of cookies. Try to decide if the excess packaging is necessary and if it affects the cost of the package of cookies.

References/Resources:

Dr. Tom Turpin

lessonplanpages.com (Probability Spreadsheets – Eric Hood) and The Scientific Method Data Sheet
Eyewitness Science