

DETECTIVE SCIENCE

Treasure Keepers Fall 2013

Grades 4-7



Objective: Students will be able to understand the rationale and reasoning of crime scene analysis by participating in related activities and learning the science behind those activities.

August 12: Introduction to Forensics—Chronological Process of Crime Scene. Activity: You Are the Detective & Mystery Box

August 19: Crime Scene Analysis Activity: Scene of the Crime. Students will need to bring: camera or electronic device that takes pictures and can be viewed immediately—ie iphone, ipad, etc (can be shared with partner), tape measures

August 26: Witnesses—Activity: Interviewing Witnesses & Discuss Surveillance

Sept. 9: Physical Evidence—Activity: Tool Impression & Possible Cast

Sept 16: Chemistry of Forensics—Learning & Applying Chemistry with Observational Science—Activity: Mystery Powders & Mystery Substances. Need from anyone: 4 Magnifying lens, eye droppers (probably not returned), baby food jars

Sept 23: Forensic Entomology—Dirty Jobs with Mike Rowe Video. Possible Purdue speaker. Possible take home activity: Decomposition. Students need to bring plastic 2 cup container

Oct. 7: Forensic Pathology and DNA—Activity: Blood typing and DNA analysis

Oct. 14: Detective Scott Waymire—Crime Scene Analysis—Activity: Fingerprint lifting

Oct 21: Forensic Anthropology: Activity: Bone Identification Activity and Estimating Height. Need: Chicken bones from boiled whole chicken, place in freezer bag and freeze and bring to Michelle.

Oct. 28: Forensic Microbiology—Activity Based on Materials available.

Nov. 4: Detective Scott Waymire—Evidence Collection—Activity: Evidence Analysis

Nov 18: Wrap up & Procedure to obtain evidence--Activity: You be the detective

*****Syllabus is just a tentative outline. Order of classes and specific activities may be changed based on availability of supplies and addition of speakers. Cost is \$10 (Money not used will be returned.) Note: The blood typing kits do not require students to give blood for the experiment!***