

ASU'S Newly Renovated Zacheis Planetarium Grand Re-Opening Celebration!



SAN LUIS VALLEY SCHOOL FESTIVAL Featuring Space Foundation Activities and Planetarium Presentations

Funded by HSI Title V STEM Grant

Contact: Marcella J. Garcia, Director

mjgarcia@adams.edu

719-587-8340

Friday, September 7, 2012
Elementary Schools
Pre K—5th Grade
8:00 AM—12 Noon

Friday, September 7, 2012
Middle/High Schools
Grades 6—12
1:00 PM—5:00 PM

MENU OF ACTIVITIES (30 minutes rotating)—Open to all participants

Why Explore? Participants will draw conclusions based on careful observations of fictional planets.

Suggested Grade Level: 2nd—5th

Kinesthetic Astronomy: Participants will create a scale model of the solar system using the standard system of measurement.

Suggested Grade Level: Pre K—5th

Planetary Lander: Participants will create a lander that could land on a planetary surface they will create out of household items.

Suggested Grade Level: Pre K—5th

Mass vs. Range Straw Rockets: Participants will explore the relationship between rocket mass and flight range.

Suggested Grade Level: 3rd—5th

Comets: Participants will learn about the basic components of a comet and demonstrate how the comet's head and tail form by building a comet model.

Suggested Grade Level: Pre K—2nd

Cratering and Erosion: Participants will drop objects of different masses from varying heights creating craters and learn that objects dropped from a greater height, will have more speed, and thus have more force and will create a larger crater.

Suggested Grade Level: Pre K—2nd

Zacheis Planetarium Shows—8:00, 9:00, 10:00 and 11:00 AM
Reserved Seating Recommended— Capacity Each Show: 45

MENU OF ACTIVITIES (45 minutes rotating)—Open to all participants

Why Explore? Participants will draw conclusions based on careful observations of fictional planets and decide which one may provide more benefits from exploration.

Suggested Grade Level: 6th—12th

Hydroponic Germinator: Participants will understand and build a hydroponic growing chamber.

Suggested Grade Level: 6th—8th

Kinesthetic Astronomy—The Phases of the Moon: Participants will kinesthetically manipulate a simulated moon to observe the changing phases of the moon.

Suggested Grade Level: 6th—12th

Weighing In—Bone up on Bones: Participants will observe bones, comparing and contrasting structure, function and composition.

Suggested Grade Level: 6th—9th

Pipette Rockets: Participants will observe the powerful synthesis reaction that occurs with hydrogen gas and oxygen gas.

Suggested Grade Level: 6th—12th

Igneous Rock ID: Participants will learn the classification of igneous rocks based on their mineralogy and texture and be able to identify the major rock types from hand specimens.

Suggested Grade Level: 6th—12th

Zacheis Planetarium Shows—1:00, 2:00, 3:00 and 4:00 PM
Reserved Seating Recommended— Capacity Each Show: 45