



Enhancing Science and Technology Education and Exploration Mentoring

Fall 2006 Curriculum

Week 1 (September 19 - 21)

Introduction to the Program

- Overview of ESTEEM
- Pre-Evaluation and other paperwork
- Develop Rules, Regulations, Expectations, and Respect Statement
- Team Building & Getting to Know You Activities
- Q&A

Week 2 (September 26 - 28)

Simple Machines

- Introduction to Simple Machines
- K'Nex
- Rube Goldberg
- Q&A

Week 3 (October 3 - 5)

Simple Machines

- Mousetrap
- Create your own Rube Goldberg designs
- Simple Machine Scavenger Hunt
- Q&A

Week 4 (October 10 - 12)

Cameras/Digital Photography

- Pinhole Camera
- Take cameras apart
- Rules of cameras
- How to operate
- 10 steps to becoming a great photographer
- Photo Scavenger Hunt
- Q&A

Week 5 (October 17 - 19)

Digital Storytelling

- Short Presentations on what was found on the scavenger hunt
- PowerPoint Tutorial
- PowerPoint Biography: Getting to Know You
- Q&A

Week 6 (October 24 - 26)

Digital Storytelling

- PowerPoint Biography: Getting to Know You
- Present PowerPoint Biography
- Q&A

October 28- FIELD TRIP DAY (Location TBD)

Week 7 (October 31 – November 2)

Telephone Technologies

- How Telephones Work (brief)
- Start Telephone kits
- Q&A

Week 8 (November 7 - 9)

Telephone Technologies

- Complete the telephone kits
- Begin telephone stations
- Q&A

November 11- FIELD TRIP DAY (Location TBD)

Week 9 (November 14 - 16)

Telephone Technologies

- Complete telephone stations
- Q&A

Week 10 (November 28 - 30)

Toy Design Challenge

Week 11 (December 5 - 7)

Toy Design Challenge Continued

December 9- FIELD TRIP DAY (Location TBD)