

Hello,

The Science Days program is intended to provide elementary students with the opportunity to experience science in an educational setting. It is the goal of this program to get students interested in the sciences early since studies indicate that once students reach the upper elementary grade, it is much harder to stimulate their interest in the sciences. To assure that these students experience the most out of this opportunity, three science departments at Angelo State University are participating in this program.

In the Science Days program, students will be exposed to the Biology department's Natural History collections. These collections demonstrate the variety of wildlife that can be found in the regional area surrounding San Angelo. Students will be given the opportunity to participate in some hands on science demonstrations that will provide them with a greater, and more compelling, perspective on the sciences. A chemistry and physics magic show will be provided to students to demonstrate more concepts in chemistry and physics. Students will also have an opportunity to learn about geology and participate in some interesting math activities. These concepts will be explained at a level that the students can appreciate and understand.

We realize that these activities are diverse and will provide students with a greater appreciation of several fields of science at the same time. I do want to stress that it is important for these students to receive some basic background information that will help compliment what the Science Days program will teach these students. To this end, I have chosen several activities that will provide these students with an appreciation of some of the basic science concepts prior to having them attend the program.

I have compiled a set of activities that will compliment the Science Days program that ASU is presenting to elementary students this year. These activities have been obtained from several educational websites. I cannot make any claim as to how well these activities will work for your particular students, or as to their safety or effectiveness. This is simply a collection of activities that we think will help your students appreciate the program more. You may feel free to visit our Science Days webpage for more detailed information concerning these activities. You will want to work through these activities prior to having your students attend Science Days. If you have any other science activities that you think other teachers would appreciate, please feel free to forward them to me so that I can pass them on to other educators in your field. My phone number is 942-2181 ext 250, my email is Nick.Flynn@angelo.edu.

These activities may be split between the categories on the following page. It would be ideal if you could work through most of these activities before your students attend the Science Days program, but I am sure that you have state curriculum guidelines to follow when you design your classes. You may also want to use some of these activities after your students have attended the Science Days program.

Sincerely,

Nick Flynn

Activities in preparation for Science Days

General Science Activities

=These activities were chosen because they provide students with some basic concepts involved in performing science and designing experiments.

- PB & J programming
- Underwater Fireworks
- Observing environmental conditions

Chemistry (some physics as well)

=These activities were chosen to demonstrate some chemistry concepts that the students will be exposed to in the program

- Alicia screams for ice cream
- Introducing the periodic table
- Don't drink the water
- Glue from milk
- The bubble gum story (NOTE: This one has some Texas History associated with it)
- Diaper magic

Biology

=These activities compliment the Natural History collections that the students will view while at ASU

- The water cycle
- Making a biosphere
- Echo location
- Habitat design project
- Mealworms

Physics

=These activities compliment the chemistry/physics magic show as well as the physics demonstrations

- Leyden Jar: Static Electricity
- Catapult

Mathematics

=These activities complement the mathematics portion of Science Days

- Converting Celsius to Fahrenheit
- Converting minutes to hours
- Converting coin values
- How to find a missing number in a sequence

General schedule

Note: group designations and a finalized schedule will be provided to you at ASU.

#	9:20	9:45	10:10	10:35	11:05	11:30	12:00	12:40	1:45
1	Geology	Math	Plants	Reptiles	Mammals	Hands On	Lunch	Magic Show	Depart
2	Math	Geology	Hands On	Plants	Reptiles	Mammals	Lunch	Magic Show	Depart
3	Mammals	Hands On	Geology	Math	Plants	Reptiles	Lunch	Magic Show	Depart
4	Reptiles	Mammals	Math	Geology	Hands On	Plants	Lunch	Magic Show	Depart
5	Plants	Reptiles	Mammals	Hands On	Geology	Math	Lunch	Magic Show	Depart
6	Hands On	Plants	Reptiles	Mammals	Math	Geology	Lunch	Magic Show	Depart

Locations of activities

- 1). Geology will take place in CAV 212 (2nd Floor)
- 2). Hands On Science will take place in Cavness 216 (2nd Floor)
- 3). Math will take place in Cavness 206 (2nd Floor); **NOTE: Different location from prior years**
- 4). Mammals will take place in Cavness 109 (1st Floor)
- 5). Reptiles will take place in Cavness 027 (Basement)
- 6). Plants will take place in Cavness 120 (1st Floor)
- 7). Magic show will take place in Cavness 100 (1st Floor)
- 8). Half of the groups will eat lunch in Cavness 200 and half will eat lunch outside. In the event of inclement weather, the groups assigned to outside will eat inside Cavness.

Cavness is building #6 on the accompanying campus map

Information and instructions for teachers

1. Students will be split up into groups of 30-35.
2. Some students may have to go with another teacher or another teacher from another campus.
3. Please tell students to not touch any of the specimens in the mammal, reptile or plant collection. Chemicals on their fingers will eventually destroy the specimens.
4. Please remind students that there are classes in session and to please be quiet when they are in the halls.
5. In the event that your group arrives after 9:20, we may not be able to show them everything in the program. If you do arrive late, please do not ask us to show your group the portion of the program that you missed; this will interfere with the overall schedule of the program.
6. Please note your group name and let all of your assigned students know this.
7. Lunch may be eaten in CAV 200 or outside. In the event of inclement weather, lunch will be eaten in CAV 200 and the adjoining halls on the second floor.
8. **IMPORTANT: You must provide lunch for your students since we will not be able to.**
9. The feedback form that is provided in this packet is the **best** way to provide us with feedback concerning Science Days. We always welcome feedback of any type or form, but please understand that the form we provide you is the very best way to make us aware of needed changes.

Restrooms

Restrooms are located on the first and second floors of the Cavness building.

- The boys restrooms are located near CAV 202 and CAV 120
- The girls restrooms are located near CAV 216 and CAV 109

Science Days Feedback Form

Please take the time to fill this form out. This program can only get better if we receive your feedback.

Your name _____

School _____

Date-attendance _____

1). What did your students like most about the Science Days program (feel free to list as many items as you choose)

2). What did your students like least about the Science Days program (feel free to list as many items as you choose)

3). Would you add anything to the program?

4). Would you remove anything from the program?

5). What type of support from ASU would help you the most in teaching science to your students?

6). General comments

