

Families Exploring Science and Technology Surveys

FEST (Families Exploring Science and Technology) is an extra curricular program that focuses on students in grades 6-7. The program runs for four weeks, with one two hour session per week. Students participate in the program along with a parent or adult science buddy. The goal of the program is to build a working drawbridge. Hands-on lessons in structures, strength testing of sample structures, gears and electricity are followed by the assembly of the drawbridge made of bass and balsa wood, powered by a motor.

FEST is part of a program entitled *Promoting Young Women in the Physical Sciences*, funded by the National Science Foundation through grant number NSF-HRD 96-19140; M. Chandrasekhar, U. of Missouri Columbia, and R. Litherland, Columbia Public Schools, Directors.

The surveys included are the following:

Student Science Experience Survey	pages 2 and 3
Parent Science Experience Survey	page 4
Program Evaluation	page 5

(Note: The pages are not numbered, however this scheme will allow you to print selected pages, if desired)

FEST
(Families Exploring Science and Technology)
Student Experience Survey

First and Last Names _____

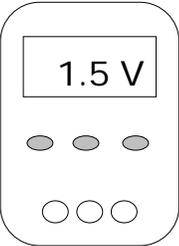
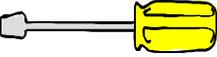
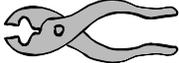
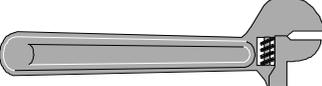
Circle the word that best describes how often you have done the activities listed in the survey.
Do NOT include activities that were required as a class assignment

1. I have used LEGO equipment.
A) a lot B) sometimes C) once or twice D) never
2. I have visited a natural history or science-center museum or a nature center.
A) a lot B) sometimes C) once or twice D) never
3. I have taken a tour of a hospital, medical, or dental facility.
A) a lot B) sometimes C) once or twice D) never
4. I have taken something apart to see how it works.
A) a lot B) sometimes C) once or twice D) never
5. I have watched science programs on television (for example 3-2-1 Contact, NOVA, Nature, National Geographic, Discover).
A) a lot B) sometimes C) once or twice D) never
6. I have performed a chemical experiment or used a chemistry set.
A) a lot B) sometimes C) once or twice D) never
7. I have looked through a telescope at the night sky.
A) a lot B) sometimes C) once or twice D) never
8. I have read books about science or scientists.
A) a lot B) sometimes C) once or twice D) never
9. I have fixed something mechanical (for example, a bicycle).
A) a lot B) sometimes C) once or twice D) never
10. I have fixed something electrical.
A) a lot B) sometimes C) once or twice D) never
11. I have worked with science-related hobbies.
A) a lot B) sometimes C) once or twice D) never

The survey is used for participants in FEST, a four session parent-child science and technology extra curricular program for students in grades 6-7. FEST is part of an NSF funded program entitled Promoting Young Women in the Physical Sciences, M. Chandrasekhar and R. Litherland, University of Missouri Columbia, Directors.

12. I have helped someone work on a car (for example, changing the oil, adding water to the radiator).
 A) a lot B) sometimes C) once or twice D) never
13. I have made model rockets, cars, or airplanes.
 A) a lot B) sometimes C) once or twice D) never
14. I have read science articles in newspapers or magazines.
 A) a lot B) sometimes C) once or twice D) never
15. I have talked about science topics with my friends.
 A) a lot B) sometimes C) once or twice D) never
16. I have worked on science projects (for example 4-H fair, Brownie or Girl Scout project).
 A) a lot B) sometimes C) once or twice D) never
17. I have visited a planetarium or aquarium.
 A) a lot B) sometimes C) once or twice D) never

Place a check mark beside those items that your parent or other adult at home has showed you how to use.

<input type="checkbox"/> hammer		<input type="checkbox"/> voltmeter	
<input type="checkbox"/> screwdriver		<input type="checkbox"/> drill	
<input type="checkbox"/> pliers		<input type="checkbox"/> wrench	

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FEST
(Families Exploring Science and Technology)
Science Buddy Science Experience Survey

Parent / Science Buddy Name _____

Child's Name _____

Circle the word that best describes how often you have done the activities listed in the survey. Do NOT include activities that were required for during your schooling or for your work.

1. I have used LEGO equipment.

- A) a lot B) sometimes C) once or twice D) never

2. I have visited a science museum or planetarium.

- A) a lot B) sometimes C) once or twice D) never

3. I have watched science programs on television (for example 3-2-1 Contact, NOVA, Nature, National Geographic, Discover).

- A) a lot B) sometimes C) once or twice D) never

4. I have read books about science or scientists.

- A) a lot B) sometimes C) once or twice D) never

5. I have fixed something mechanical (for example, a bicycle) or electrical.

- A) a lot B) sometimes C) once or twice D) never

6. I have made model rockets, cars, or airplanes.

- A) a lot B) sometimes C) once or twice D) never

7. What is your occupation?

8. In a few short phrases, describe the type of tasks you do in your work.

9. Circle your highest level of education attained.

less than high school
graduate degree

college degree
trade/technical school

high school or equivalent

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FEST Evaluation

Student's Name (please print) _____

Results may be used in reports to the National Science Foundation, if used all data will be kept confidential.

Directions: Circle your reaction to items one and two, then write your family's response on this form for three, four, and five.

1. Based upon your family's involvement in FEST, would your family recommend others to attend future FEST programs?

Not Recommend Strongly Recommend

2. Regarding your building of the drawbridge, how often did the family discuss the project between sessions?

Very Often Often Some Little Never

3. What were the three best parts of FEST?

1)

2)

3)

4. How could the FEST program be improved?