

# ***Honda – Math Machines Workshop***

**Connecting Math, Science and Technology  
Gahanna-Lincoln High School, Gahanna, Ohio – June 15-June 19, 2009  
8:00 – 4:00 Monday through Friday**

	Strongly Agree	Agree	Disagree	Strongly Disagree
1. The workshop helped improve my understanding of the connections between mathematics, science and technology.	<b>10</b>	<b>6</b>	<b>1</b>	
2. I am now better qualified to include examples of technical applications in my teaching.	<b>6</b>	<b>10</b>		
3. Before taking this workshop I was comfortable with the concepts of basic electronics.	<b>1</b>	<b>8</b>	<b>4</b>	<b>3</b>
4. I am now better able to discuss electrical or electronic applications with my students or colleagues.	<b>3</b>	<b>12</b>	<b>1</b>	
5. I plan to use the ACV and other equipment from the workshop with my students.	<b>13</b>	<b>2</b>		
6. The interaction among teachers from different disciplines was an important feature of the workshop.	<b>12</b>	<b>3</b>		
7. The interaction between high school and college teachers was an important feature of the workshop.	<b>8</b>	<b>5</b>		
8. I am now more qualified to guide students in inquiry activities related to technical applications of science or mathematics.	<b>2</b>	<b>14</b>		
9. Technical applications such as working with SAM can make learning more enjoyable for my students.	<b>11</b>	<b>5</b>		
10. By incorporating technical applications I can help my students learn more effectively.	<b>8</b>	<b>8</b>		
11. Hands-on inquiry activities in math and science are important for all students, not just those who plan to complete a 4-year university degree.	<b>15</b>	<b>1</b>		
12. I would recommend that other mathematics, science and technology teachers participate in this workshop.	<b>16</b>			
13. I am looking forward to showing the ACV to my students and colleagues.	<b>14</b>	<b>2</b>		

14. It's fun to experiment with electronics.	11	4	1
15. I expect to use the Workshop's internet web site to keep up with the latest calculator programs and classroom activities.	10	6	
16. I will use some of the equipment I made in the workshop for activities in at least one of my classes next year.	14	2	
17. I want to maintain connections with other participants in the workshop.	7	9	
18. I enjoyed attending this workshop.	14	2	

### **What aspects of the workshop were most beneficial to you?**

- Problem solving with others
- Projects, hands on work, challenges
- Building the ACV
- I have never programmed. It was nice to actually use my TI.
- Making the machines and using Math to run them.
- ACV + Labview, plus refreshing my soldering skills. Interaction with Teachers
- Learning how I can use the ACV to model Algebraic functions.
- Interaction with participants.
- Seeing the activities that can be done with the math machines.
- Networking with other teachers in different disciplines
- Professional discussions with the educators. Ideas to apply this technology to my teaching.
- Learning proper soldering techniques. Developing and sharing activities.
- Changing my personal perceptions of these applications to math & science. I especially enjoyed building the materials.
- Teamwork, the challenge of me (a tech ed) teacher demonstrating application of math concepts in real world applications.
- Doing actual lessons.

### **What aspects of the workshop most need to be improved?**

- Nothing
- A more-detailed daily schedules
- Bagels instead of Doughnuts
- N/A
- None, it is excellent right now!
- I can't think of anything
- Planning/class schedule announced/expectations for college credit/ syllabus

- I can't think of anything
- N/A
- Specific Activities for participants using the computer module. It seemed that the activities were for calculator modules.
- Pacing could be quicker.

**What other kinds of things would you like to see in way of programs that operate the equipment?**

- N/A
- More time to program
- Something with sound recognition, or adding music to the robot.
- Improved Labview applications
- Maybe just an introduction to writing programs
- Not sure at this Time
- As I use I will think more/ additional needs. The SAM seems very versatile, if you can be creative enough to do/seek how to do it.

**What additional functionality would you like to see the equipment have?**

- Turning in curves
- N/A
- Not sure
- Speaker?
- Video perhaps?
- Labview being able to collect data with sensors... read it and act on it (sensor feedback) like we can do with CBL/TI-84
- Motion Detectors
- Mounts for servos built in.
- Being able to input coordinates into the AC-Path computer program.