

Newspaper in Education Presents

inquiziKidz

BROUGHT TO YOU BY MANATEE COUNTY'S MAGNET SCHOOLS & ADULT CAREER & TECHNICAL EDUCATION

Do you like to solve puzzles?

Discover the Future

Drafters work in just about every field imaginable because drawings are needed for everything we use.

New Home Construction

Home Remodeling

Clothing Industry

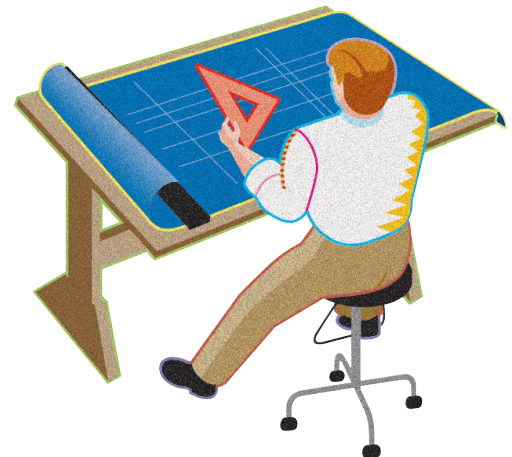
Electronics Manufacturing

Jewelry Manufacturing

Sports' Equipment Testing and Design

Automobile Manufacturing

For more career information see your school counselor and get information on-line at:
<http://jobstar.org/tools/career/spec-car.cfm>
 OR
<http://www.acinet.org/acinet/default.asp>



kidzbiz

Drawing in different directions

by Vickie Miller

Tara Finno and Jasper Masciocchi are two motivated young women. It is obvious that they have their sights set on future goals. Jasper, a senior at Lakewood Ranch High school, arranged her schedule to attend Drafting all day at **Manatee Technical Institute**. Tara graduated from Edison Academic Center and returned to MTI this year to complete the Drafting class.

Tara says that ever since she was young she loved to draw houses. She would practice drawing her own house or homes that she saw on television. Now that she is learning how to do it professionally, she



Tara Finno and Jasper Masciocchi

is even more fascinated. For example, she said that even roofs are complicated because there are so many different types of roof styles, heights, pitches, and roof materials. Tara hopes to work for an architectural company and continue to draw and design houses, both inside and out.

Jasper is also accustomed to reading house blueprints because her father builds homes. However, Jasper has decided to take her drafting interests in the direction of mechanical drafting. She has discovered that she especially enjoys drawing items and parts that will someday be built or manufactured by a company. Jasper finds these types of drawings more challenging and has plans to work for a local manufacturing company.

Their instructors praise both Tara and Jasper for their talents and predict that both will be great successes.

Drafting

Putting All the Lines Together

by Vickie Miller

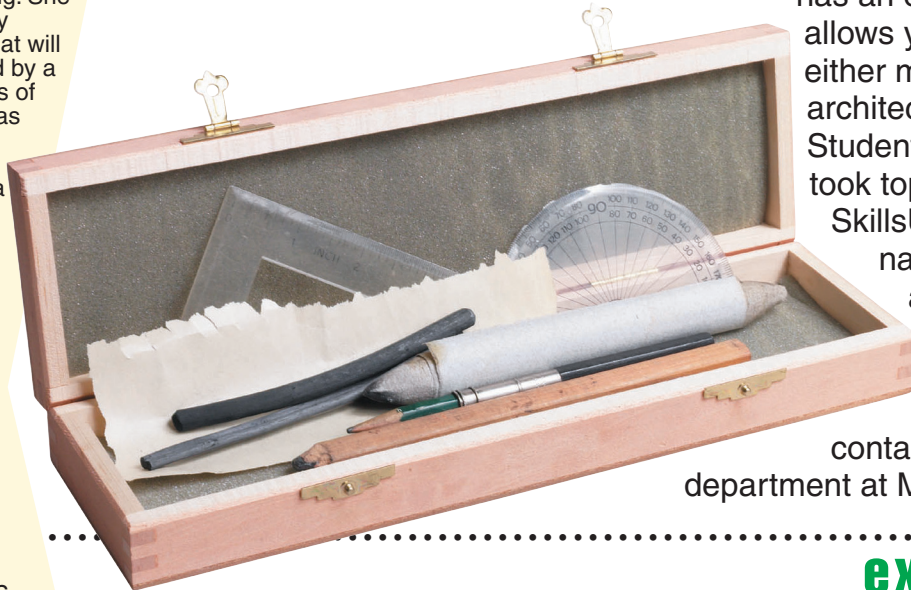
Walk into a house and what do you see? For one, there are lots of lines. Lines everywhere...walls, ceilings, door ways, windows. How did those lines and that home become realities? First, it started with an idea. Then, it took someone to draw the design. And, of course all of the measurements have to add up properly, or you could have a lopsided house.

Go into the kitchen. You'll see all kinds of appliances such as a microwave, a toaster, and a can opener. Someone had to draw those too. How many parts are there to a toaster? Probably dozens, and you guessed it, every single one of them had to be drawn by someone before the toaster could be made.

Look in the garage; and you'll probably see bicycles, a lawn mower, maybe a tennis racquet or skate board. And, how could we forget the automobile! It takes hundreds, even thousands of drawings to create an automobile. There are knobs, tires, hoses, seats, the radio, and the engine, just to name a few. Even the small parts and screws inside that you can't see were drawn by someone at one time. With every item there are traditionally three drawings required: the top of the part, the front of the part, and the right side. In drafting terms, these are called the top view, the front view, and the right view. In the past, all drawings had to be done by hand. Now there are computer programs so the drawings can be done on the computer.

Drafting is sort of like piecing together a puzzle. So, if you like puzzles you'd probably like drafting. **Manatee Technical Institute**

has an excellent program that allows you to specialize in either mechanical or architectural drafting. Students from the program took top honors in the SkillsUSA state and national contests in 2003 and 2004. If you'd like a tour and additional information, please contact the drafting department at MTI.

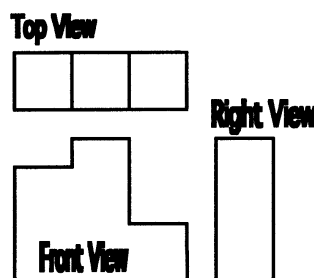


explore it

Drafters say that the most difficult task is "projecting the view" or visualizing what a part will look like. On the drawings below there are missing lines. Add the lines you think are missing

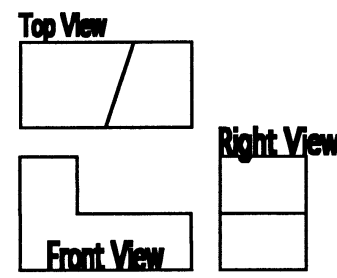
Item 1

Add lines to the right view

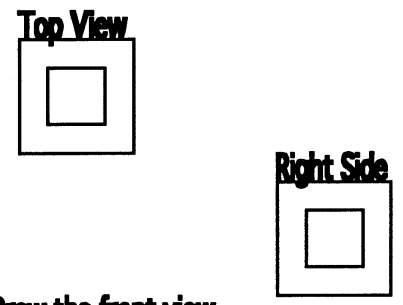


Item 2

Add lines to the front view



Bonus Question



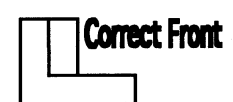
Draw the front view.

Answers to Items 1 and 2 are below. For the bonus question, send your drawing to MTI, Drafting Dept., 5603 34th St. W., Bradenton, 34210 or call 751-7900, ext. 2051 to visit. Prizes will be given.

Answer Item 1



Answer Item 2



School biz

An experienced team

by Vickie Miller

Drafting instructors at **Manatee Technical Institute**, Bob Williams and Myron Dennis, bring a wealth of business and governmental experience to their classroom. Williams even holds a U.S. patent for a device that calculates a radius. It was a tool he invented while working for a company that designed and manufactured tool boxes.



Bob Williams and Myron Dennis

Mr. Dennis has also had a diverse career that has included drawing parts of a submarine and even designing a portion of a highway. What made the highway so challenging was all the curves and hills and the discovery of an artesian spring that was flooding the road. There was also a strip of historical property, so Mr. Dennis had to draw the road narrower in that area to protect the land.

Both Mr. Williams and Mr. Dennis say that students who enter drafting are people who like puzzles and problem-solving. One of the biggest challenges is to look at a flat drawing and visualize in one's mind what the part or house actually looks like. Because everything we use and wear has to be drawn by someone, they say that there will always be a need for Drafters.

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Manatee Technical Institute

- Ballard Elementary Magnet
- Daughtrey Preparatory Magnet
- Harllee Middle Magnet
- Johnson Middle Magnet
- Lee Middle Magnet



- Lincoln Middle Magnet
- Manatee Elementary Magnet
- Rowlett Elementary Magnet
- Tillman Elementary Magnet
- Wakeland Elementary Magnet



- <http://www.skillsusa.org/>
- <http://bls.gov/oco/ocos111.htm>
- <http://www.iseek.org/sv/13000.jsp?id=100301>
- http://www.23.hrdc-drhc.gc.ca/ch/e/docs/group_2253_1.asp