

## Discussion Day on Careers in Math - Student Worksheet

*Directions:*

- *Watch the Waupaca Foundry video at [Video](#)*
- *Partner with the person to your left.*
- *Answer the following questions with your partner. Do NOT talk to any other groups*
- *Go over/discuss the questions with the class*

What is a foundry?

In which states do you think the most foundries are located?

Why do you think foundries would be located in these states?

What kinds of jobs do you think are found in a foundry?

Which of these jobs would use math? Go back to the list above and include one way a person in that career would use math (calculators, rulers, etc)

Participate in the Foundry in a Box presentation activity

## Discussion Day on Careers in Math - Answers Sheet

*Directions:*

- *Get with the person to your left.*
- *Take out a sheet of paper and answer the following questions with your partner. Do NOT talk to any other groups*
- *Go over/discuss the questions with the class*

What is a Foundry?

- A factory that casts or makes metal pieces - for example they make car brakes or part for Cars and tractors
- WPF video [Video](#)

In which states do you think the most foundries are located?

- Ohio.
- Pennsylvania.
- Wisconsin.
- California.
- Michigan.
- Illinois.
- Texas.
- Indiana

Why do you think foundries would be located in these states?

They need a specific sand in order to form their casts and near water for easy transportation. There are other reasons too.

What kinds of jobs do you think are found in a Foundry? [Powerpoint on WPF jobs](#)

- Accountant
- Electrician
- Forklift driver
- Metallurgist
- Line workers
- Human Resources
- CEO/COO
- Supervisors
- Health Care providers
- Ergonomic specialists

Which of these jobs use Math? Then get into how they would use math (calculators, rulers, etc)

- They all do - let's talk about how about a **few**:
  - **Accountant** - calculates pay checks or does bills and inventory
  - **Electrician** - needs to know why something is not working electrically. Needs to know Wattages

- **Forklift driver** - needs to know how fast he can drive and how much his forklift can lift. They also need to know the size of object they can carry
- **Metallurgist** - needs to know how much metals to put into each part they are making. They are the “baker of the recipe”
- **Line workers** - they need to know how to read the blue prints and make sure the parts are the proper size
- **Human Resources** - they need to know all of the state and national rules on hiring and firing people. Need to know numbers with drug testing, injury sheets, etc.
- **CEO/COO** - needs to know how the plant is doing. He reads EVERYONE's reports
- **Supervisors** - make sure all of their workers understand how to read blue prints and are following them
- **Health Care providers** - need to know a variety of numbers and values to serve their patients. These are the onsite doctors, nurses, therapists, etc.
- **Ergonomic specialists** - need to know how much something weighs, how far the item needs to be moved, lift heights, etc things to protect the workers so they do not get hurt.
- **Quality control** - makes sure the parts will not fail under pressure and are what the company ordered
- **Designers** - design the parts using auto cad programs. They need to be very good with drawing and measurements.

Bring in the Foundry in a box presentation to class to learn more