

# Making STEM Relevant

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Get the facts about FACS

## ASIP Local 150

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- I was amazed at the size of their local and the amount of training opportunities they offer to their members!
- This organization is truly preparing their workforce by providing ongoing training to their members.
- ASIP provides employment, apprenticeship-journeyman, and ongoing skill development to men and women.
- Earn as you learn!

# Stem Concept: Using a Sewing Gauge

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I directly teach students how to use a sewing gauge. We use measurement all the time for placement and seam allowances.

We discuss tailoring of clothing and who would purchase clothing made especially for them.

We practice hemming by hand and on the machines.



# Aux Sable Liquid Products

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- Their dedication to safety for their employees and visitors is evident from the beginning to the end of the tour.
- Chemistry, mathematic concepts, physics, and computer applications on a daily basis.
- In 8<sup>th</sup> grade, students can research quilt square patterns and using geometrical knowledge create a quilt square that would include measuring, calculating the area needed and how it would be replicated. With mirrors we can then show the tessellation of the pattern their particular quilt square.

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# Flint Hills Resources

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- Their dedication to safety for their employees and visitors is evident from the beginning to the end of the tour.
- Similar to Aux Sable in their application of math, chemistry, physics etc.
- Stem Concept:
  - Review types of cloth fibers and then provide fabrics of each type of fibers: cotton, nylon, wool, polyester, Nomex
  - Difference between woven and nonwoven fabrics
  - Students will make a booklet of these fabrics to keep in their sewing boxes and will use the booklets to show different hand stitches

# IOI Loders Croklaan

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- IOI has many knowledgeable people working for their company and that even though they came from many different backgrounds, most searched out training that would be specific for manufacturing.
- Their problems have to do with satisfying the food company they are working with to get the right "taste, texture, smell etc..
- Connecting lesson: I would have students make chocolate chip cookies in different ways. The Thin, The Thick, and The Chewy. I have read these recipes and they are different chemically (leaveners) and the amounts of fats added into the dough. Then we would sample the cookies and write about our findings.

# Stem Concept: Chocolate Chip Cookie Lab

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