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Practice: Exploring Many Variables Using the Column Switcher

Earlier, you explored relationships between the two output variables in the White Polymer VSS Team data, **MFI** and **CI**, and the different input variables.

In this practice, you use the **Column Switcher** to see how to more efficiently explore relationships between variables.

1. Open the file **VSSTeamData.jmp** from the course data folder. Make sure the five outliers for **Yield** are hidden and excluded.

2. Create a scatterplot for **MFI** and **SA**. Use the **Column Switcher** to explore the relationship between **MFI** and the continuous input variables, **SA** through **Ambient Temp**.

    - Use **Graph Builder** from the **Graph** menu to create the scatterplot.
    - Select **Column Switcher** (from the red triangle, **Redo**).
    - Select **SA** as the column to switch, and then select **SA** through **Ambient Temp** as the columns to switch to.

3. Scroll through the variables in the **Column Switcher**. Which variables appear to be most strongly related to **MFI**?

    M% and **Xf**. **M%** has a strong positive relationship with **MFI**. **Xf** has a negative relationship with **MFI**.

4. Repeat this analysis for **CI**. **Hint**: You can drag **CI** on top of **MFI** in the **Y** zone. Which variables appear to be most strongly related to **CI**?

    The only variable that appears to be related to **CI** is **Xf**. There is curvature in the relationship.

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