Are you someone who agrees with the idea that “everything’s better with bacon”? This month’s winning infographic by Morgan Fritze and Annette Mikolajczyk from Maine East High School in Park Ridge, IL, shows the chemistry behind why some of us find bacon such a tasty addition to our lives. Learn about the compounds and reactions that come together to result in “bacon-y” goodness!

**WHY BACON SMELLS SO GOOD**

Bacon is a popular flavor used in products such as: gum, lip balm, and even soda!

**Why is bacon an attractive product?**

It’s the mesmerizing SMELL!

The high temperature of the pan leads to browning and contributes to the breakdown of fats, both of which produce odors.

**MAILLARD REACTION**

When amino acids and carbohydrates react at high temperatures, this is what allows the browning of food to take place.

In bacon, the molecules formed from the Maillard reaction combine with molecules from the breakdown of fat to produce the distinctive aroma.

**AROMA COMPOUNDS**

There are approximately 150 AROMA COMPOUNDS that give bacon its famous smell.

**NITROGEN-CONTAINING COMPOUNDS**

It is also probable that the wondrous smell of bacon is due to its various nitrogen compounds. These compounds are called pyridines and pyrazines. Pyridines contribute to the “meaty” aroma in bacon. When combined with other aroma compounds, they help produce the smell of “bacon-y” goodness.

**PYRIDINES & PYRAZINES**

Hydrocarbons are hydrogen and carbon atoms chained together in various ways.

**HYDROCARBONS & ALDEHYDES**

Aldehydes contain a –CHO aldehyde group.

**Sources**

www.youtube.com/watch?v=VbLQjF6TAgw