

Chemistry Home Learning Options

[Chemistry TEKS Chart](#)
[Optional Free Online Science Resources](#)

Cook a meal! During your time in the kitchen, identify physical and chemical changes that are occurring. For the chemical changes, explain the evidence that helped you know.	If possible, make a homemade acid-base indicator. Here are some resources. Test your indicator out by testing the pH of vinegar, dish soap, baking soda solution, etc.	Go on a periodic table family scavenger hunt! See how many elements from each group you can find in your home.
Use a common meal or snack to explain the concept of limiting reactants in a balanced chemical formula. Example: If you are making 10 smores, you would need 20 graham crackers, 10 marshmallows, and 10 pieces of chocolate. If you only have 15 graham crackers, you will only be able to make 7 smores. The graham crackers are the limiting reactant.	(Kinetic Molecular Theory) Click the link or Scan the QR code with your iPad or your smart phone. Read the cartoon and answer these questions.	Practice identifying single replacement, double replacement, synthesis, decomposition, and combustion reactions using these equations. The 4 Main Types of Chemical Reactions
Explain to a family member how to check a chemical equation to see if it is balanced. If it is not balanced, show them how you balance it. Here are a few equations you can use: a) $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$ b) $\text{H}_2 + \text{Cl}_2 \rightarrow \text{HCl}$ c) $\text{Ag} + \text{H}_2\text{S} \rightarrow \text{Ag}_2\text{S} + \text{H}_2$	Identify examples of kinetic, potential, chemical, and thermal energy around your house. Justify each example.	Do some stoichiometry practice!