

## 8th Grade Science Summer Bingo

B	I	N	G	O
Make three different paper airplane designs and see which one flies the straightest and longest.	Choose two different elements from either side of the periodic table. Draw and complete a Venn diagram to compare and contrast the two elements.	Create a three-section foldable about heat transfer. Be sure to explain and give examples for conduction, convection and radiation.	Name and explain five different and unique careers you can have if you study chemistry in college.	Pick a challenge card from <a href="#">Design</a> and take a photo of the challenge you complete.
Create a brochure to explain how new elements are synthetically made and added to the periodic table. Be sure to include the use of a particle accelerator.	Use a piece of clay to make a 3D model of an atom. Be sure to be detailed and label proton, neutron and electron.	Make a three section chart and explain each of Newton's Laws of Motion and give two examples of each law.	Find three websites that explain what a chemical equation is and how to balance a chemical equation. Then explain the parts of a chemical equation/reaction.	Draw a poster explaining how sound is produced and how sound travels through matter.
Find ten things in your house that you can recycle that may have been put in the regular garbage. (Check your bathroom garbage for recyclable bottles.)	Draw a simple roller coaster with one big hill, a loop & cork-screw. Explain what forces are present at different locations of the coaster. (kinetic, friction potential, & gravity)	Use Quizlet to make a set of ten cards that explains the periodic table. Be sure to explain group names, periods, atomic number and atomic mass.	Visit code.org and describe three new things you learned about coding and computer science.	Compare and contrast endothermic reactions and exothermic reactions. Be sure to give 2 examples of each type of reaction.
Create a five-section foldable to describe the five main types of matter. Explain where you might find each type.	Draw two different sound wave graphs to explain the difference between a high pitched sound and a low pitched sound. Label wavelength, amplitude and wave height on the graphs.	Design and make a boat out of a 5 inch square piece of aluminum foil. How many pennies can it hold?	Choose 3 different sources of energy from <a href="#">electromagnetic spectrum</a> . Explain the difference in how the energy travels, forms and give examples of where you'd find each energy type.	Make a birdfeeder out of recyclable items. Need bird food? Email Ms. Kingery.
Bake a treat with a parent's help and explain what chemistry and chemical changes are involved in baking your treat.	Using a song like Row row, row your boat, change the lyrics to make a science song about mixtures and solutions.	Review the best inventions from 2020 <a href="#">here</a> and explain your top three choices in paragraph form.	Create a postcard from space to explain how forces and motion are different in space than they are on Earth.	Go <a href="#">here</a> and write eight new facts you learned about the SpaceX program.