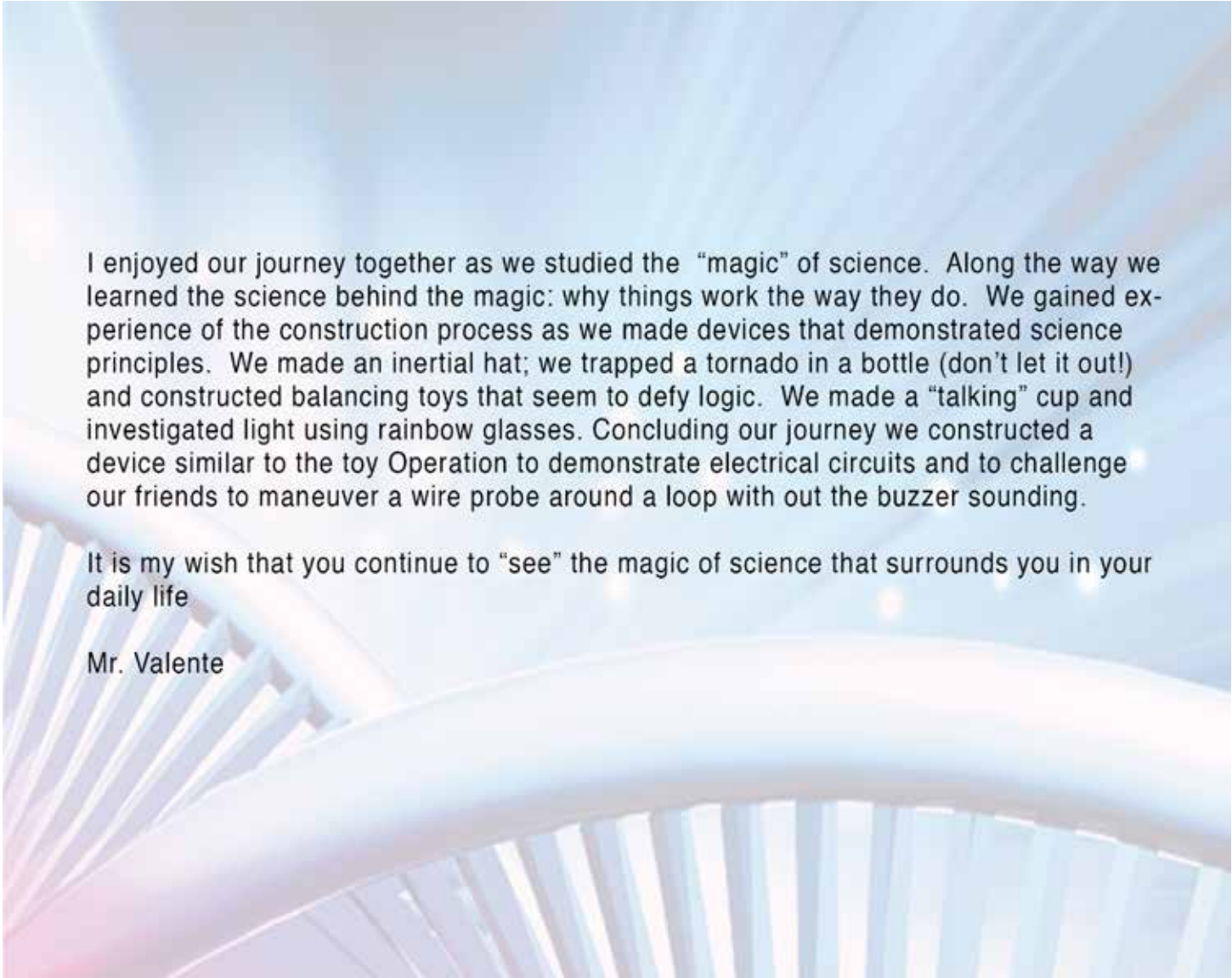




the stars
challenge

Explore, Imagine, and Build
Winter 2018





I enjoyed our journey together as we studied the “magic” of science. Along the way we learned the science behind the magic: why things work the way they do. We gained experience of the construction process as we made devices that demonstrated science principles. We made an inertial hat; we trapped a tornado in a bottle (don’t let it out!) and constructed balancing toys that seem to defy logic. We made a “talking” cup and investigated light using rainbow glasses. Concluding our journey we constructed a device similar to the toy Operation to demonstrate electrical circuits and to challenge our friends to maneuver a wire probe around a loop with out the buzzer sounding.

It is my wish that you continue to “see” the magic of science that surrounds you in your daily life

Mr. Valente



We start our journey by making inertial hats.



The class proudly displays their inertial hats.



We continued our study of inertia by accepting the inertial challenge: Can you remove the dollar bill from between the bottles with out the top bottle falling over?



We then took a ride on the inertial hovercraft.



We applied inertia to the study of circular motion.



Mr. Valente made us a fire tornado, while we made water tornados.



Turning our attention to the study of mechanics, we learned the “secret” of balancing toys.



The class constructs their balancing toys to wow their friends.



The class continues to construct different types of balancing toys.





To demonstrate different types of energy, the class accepts the challenge to construct the slowest descent roller coaster.



We then started a study of sound making a" talking cup' and a kazoo.



The students experiment with a string phone and investigate the nature of light using rainbow glasses.



We concluded our journey through science by exploring electrical circuits. The class constructs a circuit game based on the toy Operation. Can you bring the loop all away around the wire without making the buzzer sound?







