

Target Strategies

3rd Grade - Motion and Matter



Investigation 1

I can explore the forces of magnetism and gravity using magnets.

I can find through investigation that both magnetism and gravity can pull, and magnetism can sometimes push as well.

I can observe that forces can make things move even when not in direct contact with another object

I can use data to predict how far a magnetic field extends.

I can explore pushes and pulls, considering strengths and directions based on previous experiences with magnetic forces.

I am introduced to the effects of balanced and unbalanced forces.

Investigation 2

I can use a variety of systems to explore patterns of motion.

I can design wheel-and-axel systems and roll them down ramps to observe the pattern of motion.

I can change variables in a wheel-and-axel system to meet challenges.

I can build a twirly bird and explore the variables between the system, gravity and air.

I can design a top and explore the variables that result in the best spinning top.

Investigation 3

I can design a wheel-and-axel system to meet specific challenges.

Investigation 4

I can determine the mass of materials prior to mixing and after mixing.

I can confirm that the mass of the solution is equal to the starting masses in specific mixtures.

I can confirm that the mass of the solution is less than the starting masses in specific mixtures.