

## FORCE AND MOTION ROLLERCOASTER STEM (SA 1)



### DESCRIPTION

SA 1 group had the opportunity to explore force and motion by building a model of a rollercoaster using cut up pool noodles, tape and foam blocks. During this activity, they were able to investigate and experiment with different variables of speed, height and length of their rollercoaster. Children were able to observe how forces affect the motion of their marble. The children were prompted with questions that challenged their thinking/building strategies; what causes your coaster to slow down? Does the height effect the speed of your coaster? What happens if you put a curve? Through trial and error, children were able to successfully build simple slides/ramps using the tools given.

#### **Learning outcome:**

1.2 conflict resolution and social problem solving skills, 1.3 cooperation, 3.3 conversing with peers and adults, 4.5 inquiry, 4.7 Measuring length, weight, capacity, temperature, time and money, 4.9 spatial relations, directions, map