# Theme: "Thinking Like Isaac Newton"

Isaac Newton (1643–1727), was one of the most brilliant scientists that ever lived. He invented a telescope like the Hubble Space Telescope that astronomers still use today. He discovered light is a mixture of all the colors of the rainbow. He is best known for figuring out how Gravity works. <u>So, what made *Isaac* so smart?</u>

#1. Isaac Newton made models that worked.
As a young child Isaac Newton experienced almost unbearable failure. But from an early-age is quest and determination was to know and explain how things work. Isaac would watch how things worked, ponder and imagine, and build his own models. He made a machine that would grind corn powered by a mouse. He made a clock that was powered by water. Making models helped him test his ideas to see if they worked.
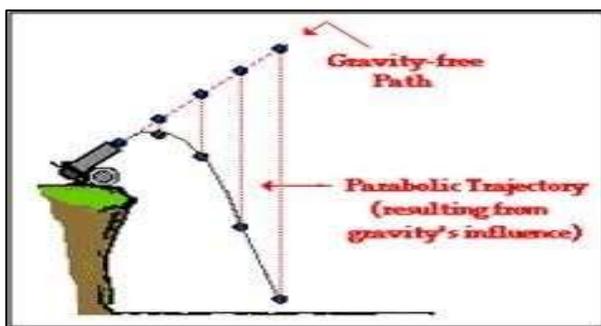
#2. Isaac Newton recorded the results of his tests to prove his ideas.
For years people doubted many of Isaac's new ideas, including the forces of gravity. But he stayed with it, testing his ideas, measuring the results, and writing down what happened. In Marble Club we will test and experiment with the Laws of Motion.
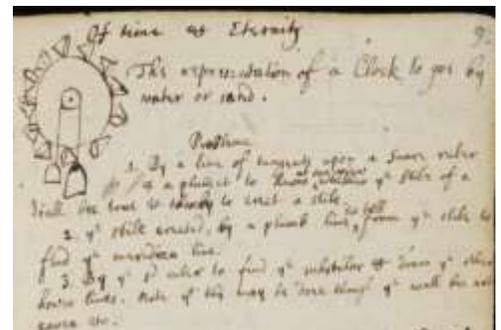
#3. Issacs kept notes and drawing.
Newton would think about a problem for weeks, months, even years. He would make sketches of his ideas and write down his thoughts to help him figure out new ideas. His handwritten notebooks contain enough notes and drawings to fill over 130 books.

#4. Isaac Newton was an Out-side-the-box thinker.
Legend has it Isaac Newton figured out what Gravity is he saw an apple fell from a tree. Relentless curiosity and imagination, lead him to discover not only that Gravity pulls everything toward Earth, but also the laws of motion and the color spectrum of light. Make an "I have a Talent Posters to reinforce a creative habit. At the bottom of the poster is a "Scouting Report", where students who see someone "Thinking Outside The Box" can write their name.
Other themes: "Respecting Everyone's Ideas", "Practicing Marble Courtesy", "Sticking With It When My Idea Fails", "Coming Up With Good Ideas" or "Asking, What if? Questions. ?" I recognize the action to the whole class.

Become a Hero Series: http://thecharacternetwork.org/the-isaac-newton-story/
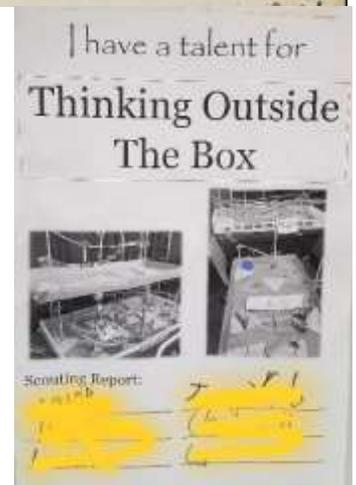
The cartoon video about Isaac Newton https://www.youtube.com/watch?v=1vTbtna25j8