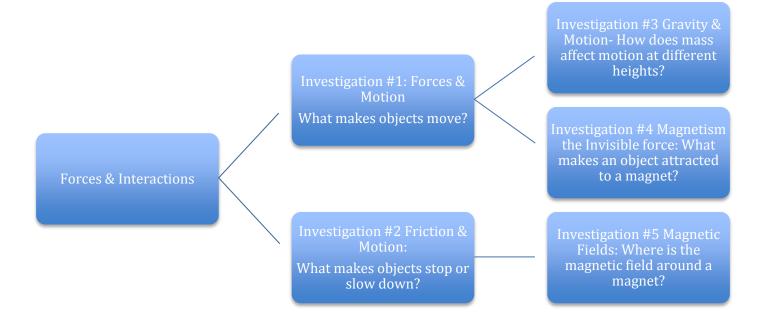
Outline of Forces and Interaction Investigations



Core books with Lexiles Used in Engineering Unit

Core Books for Engineering and Design Unit	Lexile - (CCR Expectations
	for 2-3 grades: 450-790)
A True Book: Experiments with Magnets	(700L)
What Magnets Can Do (by Allen Fowler)	(580L)
Girls Think of Everything (by Catherine Thimmesh)	(960L)
The Kids' Invention Book (by Arlene Erlbach)	(760L)
Ben Franklin and the Magic Squares (by Frank Murphy)	(400L)
Magnets in the Real World (by Chris Eboch)	(730L)
Earth Is a Giant Magnet (by Barbara Seuling)	(980L)
Core Books with a Literary Focus	
Now & Ben: The Modern Inventions of Benjamin Franklin	(910)
The Boy Who Invented TV: The story of Philo Farnsworth	(860)

Student Work Sample - Chart

Result	When I rolled the ball it kept on going until the was slowing down from Exiction. When I rolled the ball on the conspet it did not go far because it is a sough Burface, Motion was happening when the ball was solling.
Conclusion	I See friction when Frun and then I stop from fulling I see friction when a bowling Ball is rolling and there is bump, spots on the ally and the ball Stops.
Inquiry/ Questions about friction	1) is friction able to stop an object if a floor has cracks? Ocan friction 15top someone with pour rubber on there on there on our shoe.

Student Work Sample- Thinking Journal

Have you ever herd of two Forces call gravity and friction? Friction is a force that Causes things to stop however and the sefec of the Earth.

Caravity and friction can be very important and very useful to peoples lives arounty and friction can save peoples lives too. In this pages you will find out more about how gravity and friction can be useful.

In the Science book, it side if you

In the Science book, it side if you not your two honds together, you are useing friction to make Heat. Friction can be used to stop a Bike too. A Bike causes friction when you use the brakes, the Back wheil and the ground is causing the Bike to slow down and stop. In the Book, Roller Coaster A poller coaster use friction of the trace and the wheil to stop the poller coaster from moving friction is on a sled too, the sled gose fooder and fadar as it gose down hill but as it gose to the end of the hill, it is useing friction of the Sled and the snow to Stop the Sled and

In the Science book, It side that gravity keeps all objects onto the sefec of the Earth. If you Irouped a pensul, that is gravity pulling the pensul down. Gravity is importent because If. We did not have gravity, all the people and objects will flout all over the place. If you Jumped in the air Gravity will pull you down. But If you Jumped off something higher gravity will pull you down a lot faster and stronger.

In conclusion, I talked about how arriving and friction can be useful because If we did not have gravity everything will flout all over the place friction can be useful because it can some a persons life When you are going to fast on a Bike Bruth arravity and friction can be useful because If it is cold cutside, you can use friction to rud your hombs together and make heaf to keep yourself when SO I Just part about how gravity and friction is

Student Work Sample - Thinking Journal riction and Gravity Would it be good to float around all day? No it wouldn't and that is why we have gravity and friction. Friction and gravity are important because friction can help you slow down or stop. Gravity keeps us down on Earth's Surface from floating away. Friction can slow us down or stop us. For example, if I was running and a bus was coming I could stop gradity not get hit. You will find out about Friction, can slow us down or stop us but if we don't have rubbes on the bottom of your shoe then it will be harded to Stop. If you do have rubbes on the pottom of your shoe it will be example rub your hands together they will be not. Gravity is helpful by Heeping Us from Posting in the air Gravity will help the people from dieing in the outer space because there is no oxygen in outer space. Gravity holds us on the Surface of the Earth, Goar'ty can hold up down on Earth and gravity can even hold us down it we go on a rolles Coasier in a loopty loop and So ... that is all about godvity and friction. The book's got it from as gorolor Coaster Screen Science book, and forces that move. That is all of the information. Why do you think gravity is important.