List of subject for collaboration between Physics and Math

* Pendulum/Clock\*
* Absorption of light\*
* Harmonic oscillation/sound\*
* Lift off of a plane\*
* Path of Mars\*
* High and low tide
	+ Physics:
		- forces of planets on earth
		- Collecting data of high and low tide
		- Data analysis
		- Period determination
	+ Math
		- Sinus and cosinus
		- Data analysis
		- Periodic functions adding
* Kinematics/derivatives
	+ Math
		- Slope
		- Gradient
		- Average slope
		- Differentiation
	+ Physics
		- Relation between (s,t) diagram and (v,t) and (a,t) diagram
		- Velocity (average and on a moment)
		- Surface below 🡪 displacement
		- Slope 🡪 velocity or acceleration
		- Measurements
		- Walking with ranger
* Measure energy
* Radioactivity/probability
	+ Math
		- Probability
		- Statistics
		- Graphing
		- Derivatives
	+ Physics
		- Formulas of decay
		- Relationship between N(t) and A(t)
		- Understanding of probability nature of decay
* Data analysis
	+ Math
		- Statistics (mean, sdev, gaussian curves)
		- Curve fitting
	+ Physics
		- Finding relationship between entities
		- Reliability of measurements
* Condensator
	+ Math
		- Funcition fitting
		- Integrating
		- Differentiation
	+ Physics
		- Working of capacitor
		- Modelling
		- Formulas and relationship between I and Q
* Radioactivity/exponential function
	+ Math
		- Exponential functions
		- Halfworth time/depth
		- Fitting functions
		- Data analysis
	+ Physics
		- Formulas of N, I and A
		- Relationship between these relationships
* Climate modelling
* Optics/geometry
	+ Math
		- Mirroring
		- Proving of relationships between lines and angles
		- Using relationships in triangles
	+ Physics
		- Math under physics formulas
		- Mirroring of light

\* Of this subjects more detailed descriptions are available in the folder.