

Cross-Disciplinary Activities Connected To Standards

The new standards encourage teachers to break out of their “subject silos” and teach multiple subjects at the same time. Many educators have been doing this for years. For example, rather than teach science in one period and math in another, offer a combined lesson that applies math to a science experiment.

In this way, students learn how subjects relate. In addition, students have an opportunity to apply the “Practices of Innovation” while they work on these cross-curricular activities!

The following charts show the “STEAM” disciplines (science, technology, engineering, arts, and math) on two axes. At each intersection, a **sample** RAFT kit is listed that supports both disciplines. For example, **Glove-a-Phone** teaches both science and art in one activity!

Sample cross-disciplinary kits for younger students (grades K-3):

	Science	Technology	Engineering	Art	Math
Science		Colors of Light	Car on a Roll	Cap Maracas	Puff Rocket
Technology			Solar Collector	Freaky Fractals	Calculating Bones
Engineering				Tongue Depressor Harmonica	Gravity-defying Frog
Art					Mathematical Dream Catchers
Math					

Sample cross-disciplinary kits for older students (grades 4-12):

	Science	Technology	Engineering	Art	Math
Science		Speaker in a Cup	Motorized Shake Table	Glove-a-Phone	Salmon You can Count On
Technology			Breadboard Circuits	Solar Sunflower	Aquatic Quadratics
Engineering				Rapid Prototyping	Roller Coaster Math
Art					Anamorphic Art
Math					

These are just a small sample of the many RAFT cross-disciplinary ideas and activity kits.

Also: see RAFT’s Tip Sheet - *Connect Learning to the Real World with Hands-on Activities*.