

Paperless Classroom:

Quarter	Unit	Tech Sources/Labs
1	<ul style="list-style-type: none"> <li>Scientific Method</li> </ul>	2 pendulum labs: how does length effect swing time. How does increasing mass effect period of swing time. Parts of an investigation. Water investigation
1	<ul style="list-style-type: none"> <li>Motion</li> </ul>	Motion labs: speeds, ramp racers, cars, balls, etc. Walking, Jogging, Sprinting, velocity/speed. Bouncy Bunnies, Graphing. Chair push w/accelerometer.
1	<ul style="list-style-type: none"> <li>Forces</li> </ul>	Colliding/Momentum Softball: move a softball with 4 different kinds balls. (Momentum) (Gym donations) Lab and write-ups. End of Unit: Catapult project (forces, newtons). Newton Bucks) Newton's 3 Laws: (YouTube Rap) Balloon Racers, Virtual Labs.
1/2	<ul style="list-style-type: none"> <li>Simple Machines</li> </ul>	Stations Lab (7 stations: block and tackle (pulleys) (levers) various kitchen/household tools. Egg beater. EdHeads.org Kids Discover magazine-simple machines Class (modular) YouTube – Honda/Best Ever Rube Goldberg
2	Energy	Research project (foldable) on sources. Cost/Benefit analysis. (PBL) K vs. P: Pendulum, hill, swing (pendulum), rollercoaster; Height variables. Bowling Ball Pendulum (Face Demo) : Racetracks. Types of Energy <a href="http://www.Learnanytime.co.uk">www.Learnanytime.co.uk</a> <a href="http://www.Jason.org">www.Jason.org</a> <a href="http://www.need.org">www.need.org</a> Introduce Wave types: Sound and light (wave diagrams)

		Pendulum Lab/ Marble on a Ramp.
2	Electricity	Einstein Connection? SnapCircuits Electricity Generation: Static, Conduction, Energy Ball Bill Nye-Electricity
2	Waves (revisit in 4 <sup>th</sup> quarter)	Compression vs. Tension Wavelength, Frequency, Amplitude. Based on Earthquakes/Tsunamis/ America Samoa Usgs.gov.  Tie into
3	Matter	Inquiry in Action Properties Mixture <b>Physical Properties:</b> PBL: Sludge Test. . . Alien substance, find threats Stations: “Day 1: filtration: ” “Day2 : Re-Crystallization” (overnight) “Day 3 : Solubility” → Tie into inquiry . Station: Acid/Base with cabbage juice (or universal indicator).
3		<b>Chemical Properties:</b>  <b>Acid/Base: turmeric, tie into soils, human body.</b>
3		<b>PBL: Acid Spill (preteach the pH meter- Acids vs. Bases)</b> <b>Purpose:</b> Scenerio. A college friend of mine runs the water treatment plant at Klingman, CO. They had a weird spike in pH in their water and they know that we are doing acid base es right now and they wanted to have us see what happened. There is a place downstream referred to as the potholes. (Extraneous Information) fish kills, flow rates, temperature, (Budget): per test (cost) They want us to find the source of the spill. And then report back to and write a business letter to Mayor Elway explaining their conclusions and providing evidence for

		<p>their conclusion.</p> <p><b>Sense of Urgency:</b> There are 12 hours of reserve water. They have to commit to a company to truck in water (which will cost the city \$2.1 million.)</p> <p><b>Stakeholders:</b></p> <ul style="list-style-type: none"> <li>• <b>Government (local, state, federal), children playing near the stream, fisherpeople, boaters, local companies who are worried about future regulations. Residents,</b></li> </ul>
3	Periodic Table	<p>Interactive sites.</p> <p>Build-a-class (wall, cubes, wanted)</p> <p>Pass the element quiz. (Shear oneryniss). -- Each week. (give time to Make flash cards, and take test).</p> <p>Element Song – You Tube. (Choir?)</p>
3	<p><b>Review:</b></p> <p>Plate tectonics, rock cycle, weather (fronts), cells, body systems, foodwebs, chains, metric/tools.</p>	<p>Video reviews.</p> <p>Group sets of teaching.</p> <p>TAKS Practice test</p> <p>Animation</p>
4	Web 2.0	<p>Scientist wiki project.</p> <p>Multimedia project.</p>
4	Home Energy	Home Electricity to resource in environment.
4	Sound	<p>Build an instrument (TE program guitar build) Concert Day</p> <p>Stations: making different sounds, microphone? Sound tube,</p>

Animoto:

Text to anime

Glogster

NEED

Phet- CU Boulder

Audacity -have students do "recall" from the week. Put this on your blog. Post weekly summary.

Clickers -

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