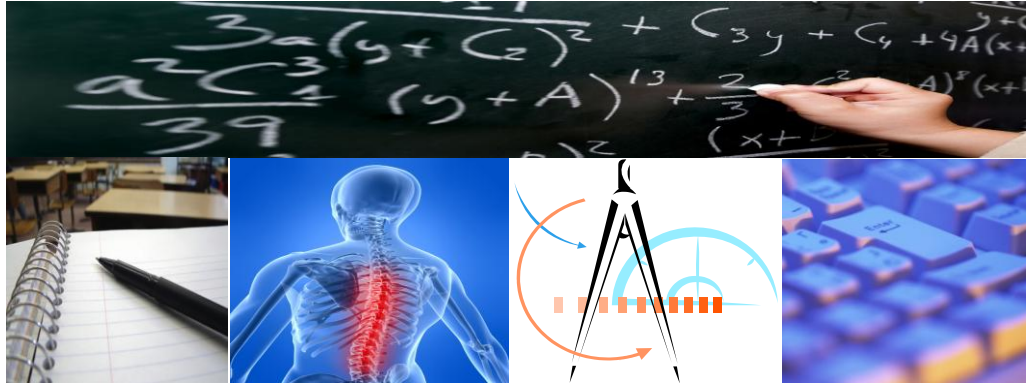


## The CT *Instructor*



April 1,  
2010

Happy Spring (knock on wood)! Hopefully winter is behind us, and all we see for a while is sunshine. With all this pretty weather comes the dreaded spring fever. I know it can target even the most dedicated students (and teachers). So this month's CT Instructor will feature ways to keep students engaged with high interest activities and information.

### Physics Activities:

#### **The Toilet Paper Spreader:**

Any experiment that involves toilet paper and a leaf blower is sure to capture most students' attention. It just might settle the over or under argument, and it's a great excuse to take the learning outside.

[http://scied.unl.edu/pages/mamres/pages/demos/physical/toilet\\_paper\\_spreader.htm](http://scied.unl.edu/pages/mamres/pages/demos/physical/toilet_paper_spreader.htm)

#### **Annoy the other teachers; make a soda straw flute!**

Demonstrate sound waves, pitch, and frequency with minimal cost or setup.

[http://scied.unl.edu/pages/mamres/pages/demos/physical/soda\\_straw\\_flute.htm](http://scied.unl.edu/pages/mamres/pages/demos/physical/soda_straw_flute.htm)

#### **Computer interactive physics lesson:**

Students help two animated "kids" balance on a see saw. Students can choose where each "kid" sits and place the pivot in different places. The computer will give a detailed analysis and show how to calculate torque.

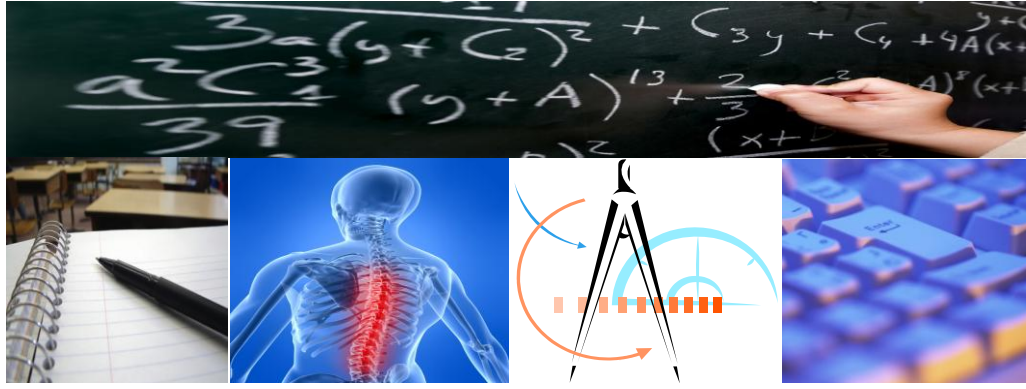
<http://www.fearofphysics.com/Seesaw/seesaw.html>

#### **Air Coasters**

The speed of the car is related to its height above the ground (this is a function). Determine the velocity of a new "frictionless" roller coaster for three possible designs. Watch the cool video clip also.

[http://www.thefutureschannel.com/algebra/air\\_coasters.php](http://www.thefutureschannel.com/algebra/air_coasters.php)

## The CT *Instructor*



April 1,  
2010

### And in the math corner:

#### From "Algebra in the Real World", building a rover:

Build a two-dimensional "rover" and analyze its ability to climb over obstacles as you vary the diameter and spacing of its "wheels." This site has cool downloadable teacher and student instructions.

[http://www.thefutureschannel.com/algebra/building\\_a\\_rover.php](http://www.thefutureschannel.com/algebra/building_a_rover.php)

#### Weighing the Evidence:

How many pennies are in a mystery roll? Finding the answer involves variables.

[http://www.thefutureschannel.com/algebra/patterns\\_relations\\_functions.php](http://www.thefutureschannel.com/algebra/patterns_relations_functions.php)

Algebra in the Real World is a great site with many interactive activities and corresponding videos. Check it out!

Don't forget that Summer Conference is August 2<sup>nd</sup> and 3<sup>rd</sup>. Hope to see you there.

If you would like more information, contact:

Kim Eason

Academic and Transitions Specialist

Oklahoma Department of Career and Technology Education

[keaso@okcareertech.org](mailto:keaso@okcareertech.org) or call 405.743.5596

The Next Step <http://collegereadinessok.blogspot.com/>