

Welcome 2016-17 Monsoons!! Although school is 3 months away you can think about and practice science now and throughout summer!

Familiarize yourself with my website: www.stithsonianscience.com. You will find fascinating, useful resources—good stuff for ALL students. Here are three pages you and your parents may appreciate:

-Summer Science Puzzlers

-Science at Home

-Parent Info

Each week until Labor Day, I will add a new *Summer Science Puzzler*. Simply click on this page and view the puzzler. The first one is the "Seesaw Slides" video (you saw this device on Move-Up Day). (Flip over this paper to read about some other planned Puzzlers.) Email me your answers and explanations dstith@londonderry.org. I'll post answers after the puzzler due date.

The *Science at Home* page features science experiments you can do at home. I will periodically place documents for parents (and students) to read on the *Parent Info* page.

I look forward to working with you and hope to hear from you during summer!
~Mr. Stith ☺

The image shows a screenshot of a website titled "Elements of Science". At the top left is a logo with icons for a lightning bolt, Ti (22), Th (90), another lightning bolt, a Bohr model, Ni (28), a flask, and N. Below the logo is the text "Elements of Science". To the right of the logo is a navigation menu with the following items: Home, Acting Like A Scientist, Properties of Matter, Cells & Genetics, Properties of Energy, Magnetism, Electricity, Forces & Motion, and Sound & Light. To the right of this menu is another menu with the following items: About, Parent Info, Student-Created Work, Family Science, Science Photos & Videos, More Science, Teacher Resources, Summer Science Puzzlers, and Science at Home. Three red arrows point to "Parent Info", "Summer Science Puzzlers", and "Science at Home". Below the navigation menu is a "Home" section with a "Note" about YouTube videos, a "Contact me" link to dstith@londonderry.org, and a "Latest Additions:" section. At the bottom, there are sections for "Fireworks Through Diffraction Glasses (More Science)", "May Birthdays:", and "June Birthdays:". A large image of a lake and mountains is also visible.

Some planned 2016 Summer Science Puzzlers:

- ❖ **Seesaw Slides:** Predict the placement of 4 steel marbles rolling down the device.

- ❖ **Forward or Reverse II:** Watch the 5 short movie clips. Determine whether the clips are playing forward, in reverse, or if there is no way to tell (the action would appear the same either way).

- ❖ **Mystery Rising:** This is NOT part of a scary movie—this was filmed in my backyard. Can you explain what you see?

- ❖ **High Road, Low Road:** This one sounds easy. There are two paths for pinballs to travel. Which is the faster one (or are they the same speed)?

- ❖ **Sounds Familiar:** Try to identify a variety of sounds that are common in many households.

- ❖ **Is There a Problem Here?:** In each clip there are things that should not be acting the way they are. Can explain the problem?

- ❖ **Wood & Water Attractor:** This device doesn't seem possible. If it isn't, then how is it working?

- ❖ **Camera, Camera, What Camera?:** How hard can it be to identify the camera among three choices. You'll find out!

- ❖ **Determining Relative Mass:** How can you tell which is more massive (a balloon or a blow dart) when the only information you have is watching a collision between the two?

There will be a dozen different Puzzlers presented between now and Labor Day Weekend. How many will you attempt?