

Sterling Science In-Service "Hands-on" Science Demos

(Or "How to get 2 Hours by watchin' cartoons!")

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Sterling District Pre-assessment :

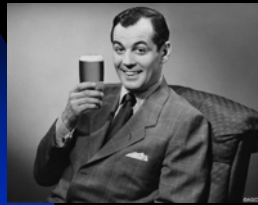
1. Betty Boop
2. Bullwinkle J. Moose
3. Dudley DoRight
4. Booboo Bear
5. QuickDraw McGraw
6. Frodo Baggins!
7. George of the Jungle

Sterling District Pre-assessment :

8. Elmer Fudd
9. Foghorn Leghorn
10. Wile E. Coyote
11. Yosemite Sam
12. Phineas J. Frog
13. Marvin Martian
14. Porky

Schedule:

- 9:15 - 9:20
 - ◆ Work Hard...
- 9:20 - 10:10
 - ◆ Coffee Break
 - ◆ Nap & Cookies



PLEA!

NJSTA Convention
&
PAEMST

Activity #1

Little Red Fishy Things

- You just;
 - ◆ Performed all 5 standard steps of the ever-popular & overrated "Scientific Method"
 - ◆ Performed Cooperative Learning
 - ◆ Drew a real conclusion
 - ◆ Hopefully, were personally motivated to do all the above.

& if you weren't, you're in the wrong room...



Activity #2

- Rainbow Formation
 - ◆ Critique Teacher Demo
 - ◆ Included in Scott Foresman's *Wonders of Science* text.
 - ◆ Real Rainbow



Shiprock & Rainbow
Shiprock, Arizona
© Arnold Wolfson, www.drainnature.com

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Rainbow & Shell Station
Shiprock, Arizona
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Activity #3

Floating Bubbles Demo

- Why?
- How?
- Apps?
- Camaroon!
- CO and CO₂ Detectors!

Activity #4

Coke vs Pub Draft Demo

- Why?
- How?
- Apps?
 - ◆ Density
 - ◆ PVNERT
 - ◆ CO₂ dissolving curve
 - ◆ fl. oz vs weight vs mass



Cutnell's *Physics*, Wiley 1998; pg 249 (Duh...)



Activity #5

- Quickies
 - ◆ Dead Fly
 - ◆ Free Terrarium
 - ◆ Penicillin
 - ◆ Cell Permeability
 - ◆ Is Sammy Alive

Activity #5

- More Quickies
 - Environmental Mining & Core Sampling
 - Intro to Earthquakes & Earthquake Mapping
 - Bernoulli Bag
 - Blood without needles
 - Bar Napkins

Activity #6

- Stations Everybody!
 - Mystery Corks
 - Hovercraft
 - Dropped Bagel
 - Phonebook Friction
 - Babooze Cans

Activity #6

- Stations Everybody!
 - File Cabinet 'B'
 - Lentz' Law
 - True Mirror
 - Color Perception
 - ½ Life Demo

Activity #7

- Genetics Testing
 - Predict
 - Test
 - Report
 - Compare to "Averages"

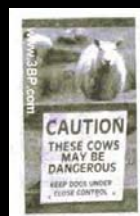
Activity #8

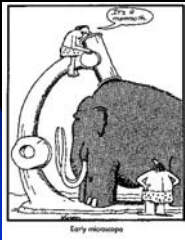
- Dioxide Glass
 - Demo 1st
 - Build / Construct
 - Predict
 - Test
 - Report

Activity #9

- Refraction Thingees
 - Invisible Test-tube
 - Invisible Beaker
 - Magic Test-tube!

Activity #9





Sterling Post-assessment :

- # 1. # Men In Black – Will Smith
- # 2. # SnagglePuss
- # 3. # Fractured Fairy Tales
- # 4. # Jetsons
- # 5. # Woody Woodpecker
- # 6. # Droopy Dawg
- # 7. # The Tick

PETA Disclaimer :

*No small furry creatures
were harmed in the
production of this
presentation.*

Dude, he said 'PETA!
HA EH EH EH....'

