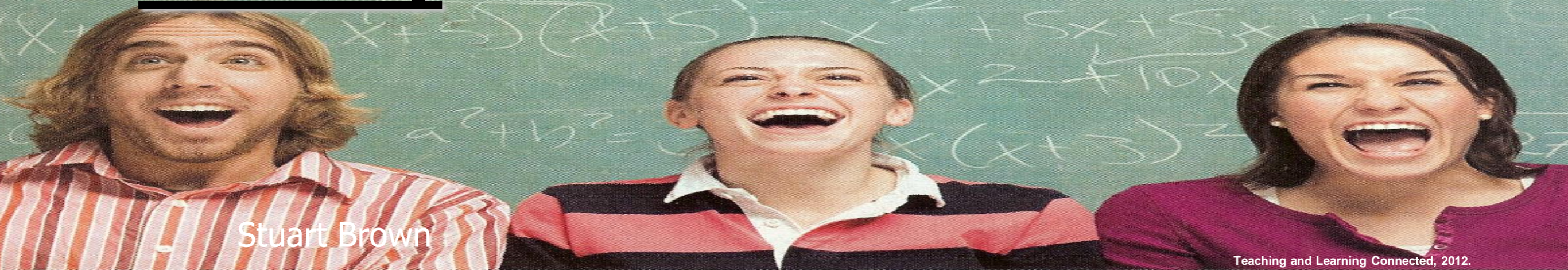
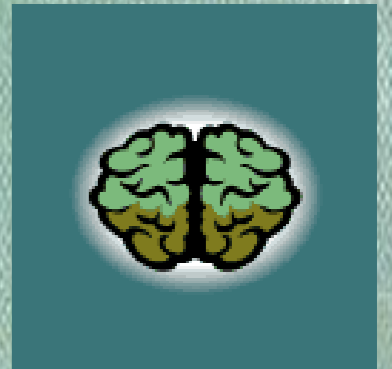
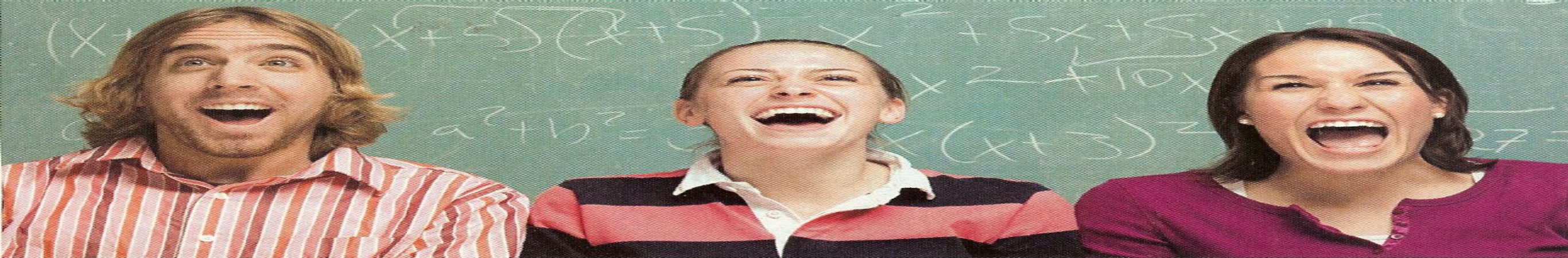


# Play!

- **NOTHING** lights up the brain like play
- **It fires up the cerebellum**
- **It increases impulses into the frontal lobe, where executive function resides**
- **Play helps develop conceptual memory**

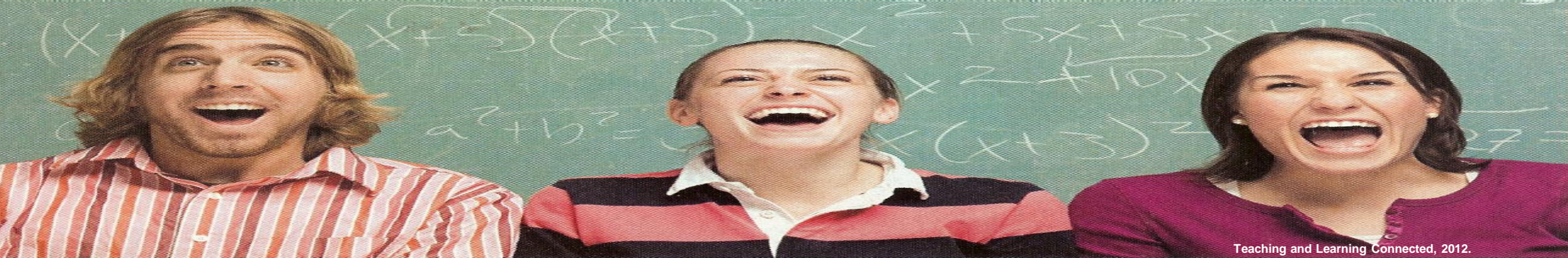


Why should I infuse  
fun into a serious  
subject like  
mathematics?



# Our Outcomes...

- **Engage in strategies that promote academic rigor in mathematics while attending to the social and emotional needs of young people**
- **Exchange ideas with and get support from other hard-working, motivated, fun educators like you!**

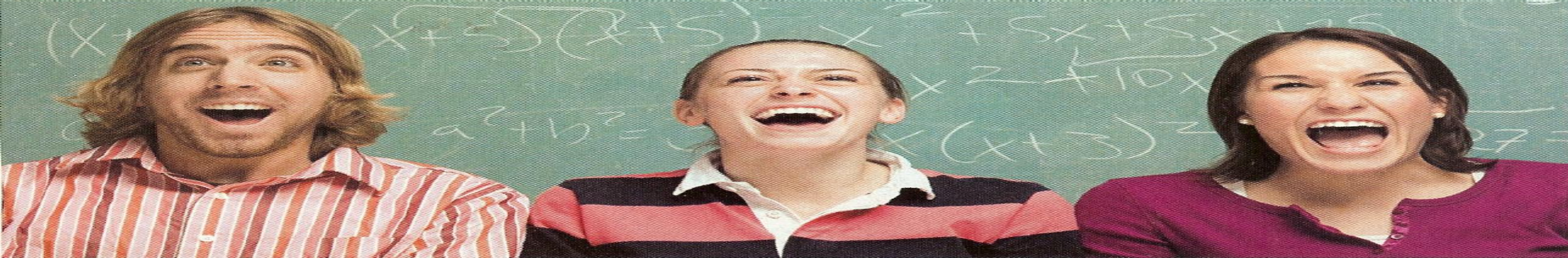


# Equation of the Day

Today's date, April 26, 2012  
when written numerically, looks like this:

**4/26/12**

Using ALL of those digits and ONLY those digits and **KEEPING THEM IN THAT ORDER**, make an equation. You can use ANY symbols that you like.

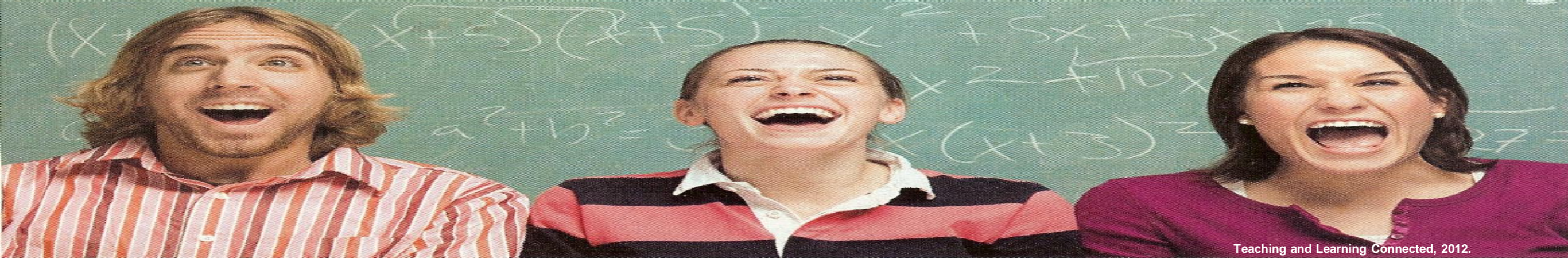


# The 21<sup>st</sup> Century requires

- **thinking critically and making judgments**
- **solving complex, multidisciplinary, open-ended problems**
- **creativity and entrepreneurial thinking**



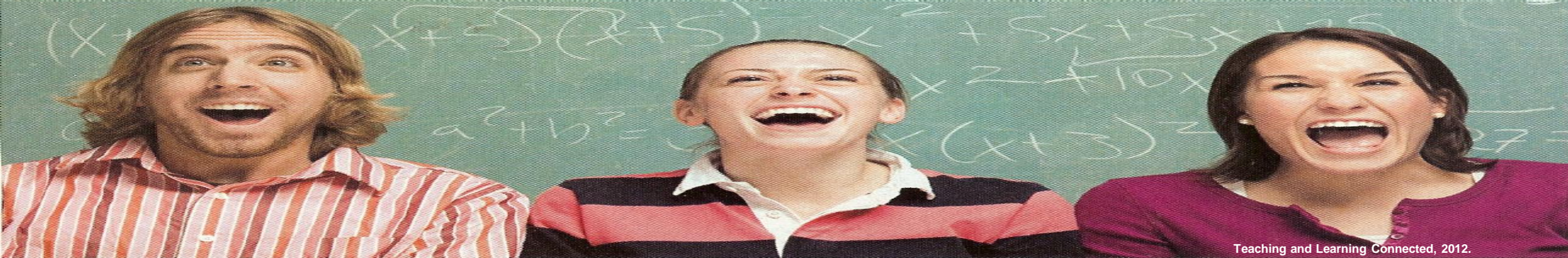
PARTNERSHIP FOR  
21ST CENTURY SKILLS



# The 21<sup>st</sup> Century requires

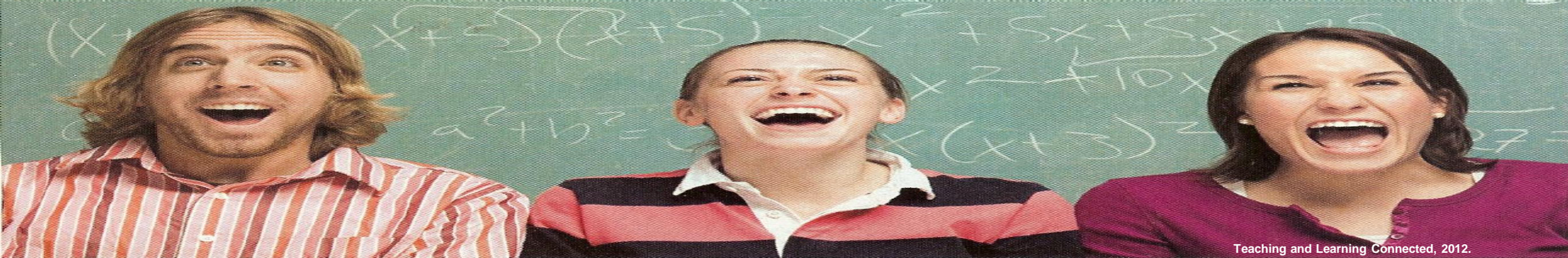
- **communicating and collaborating**
- **making innovative use of knowledge, information and opportunities**
- **taking charge of financial, health and civic responsibilities**

<http://www.p21.org>



# Two Truths and a Fib

- **Twenty seconds of good, hard belly-laughing is equal to 1 minute on a rowing machine**
- **Humor can increase a student's self-esteem, sense of empowerment and success in mathematics**
- **Today is World Penguin Day**



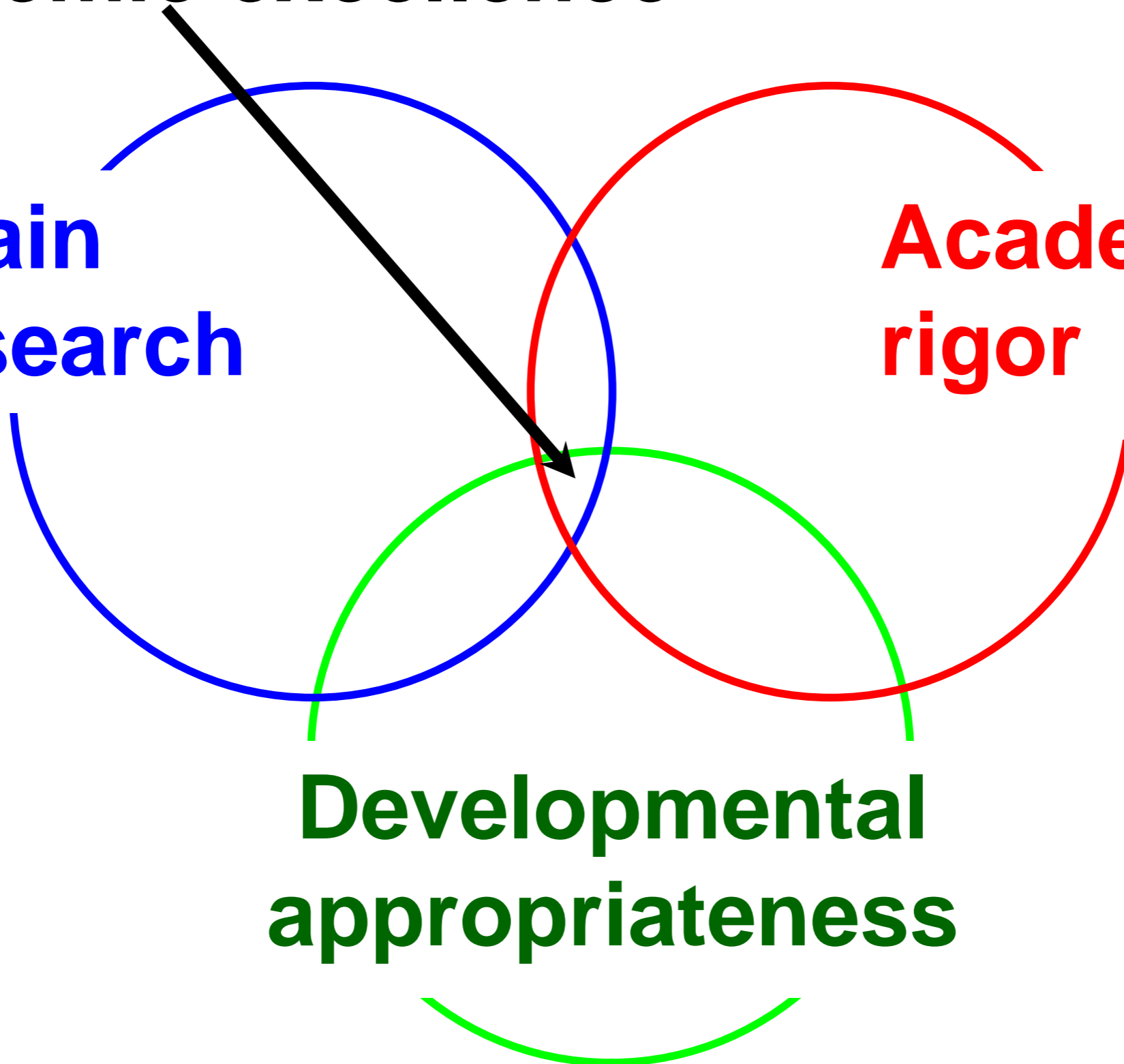
# Three Key Components

**Academic excellence**

**Brain  
research**

**Academic  
rigor**

**Developmental  
appropriateness**

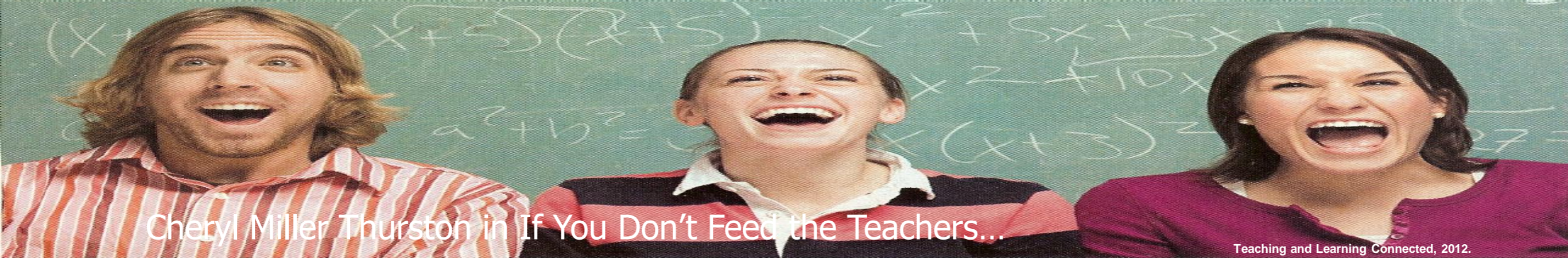




# Health benefits associated with humor

The physiological effects that laughing produces may include:

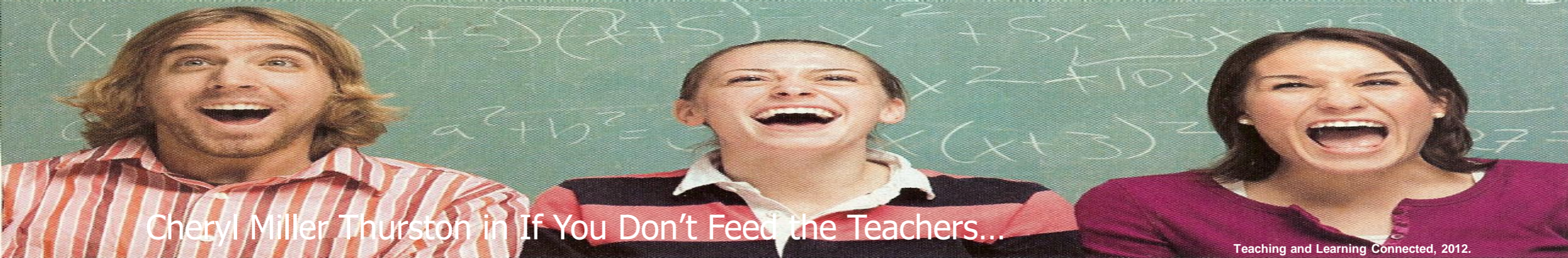
- **The productions of endorphins in the brain**
- **The promotion of deep breathing which sends oxygen into the blood stream**
- **A relaxing of tight muscles**



# Health benefits associated with humor

The physiological effects that laughing produces may include:

- **A free face-lift**
- **Exercise for the belly  
(easier than sit ups)**
- **A cleansing of the orifices**



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