



After School University

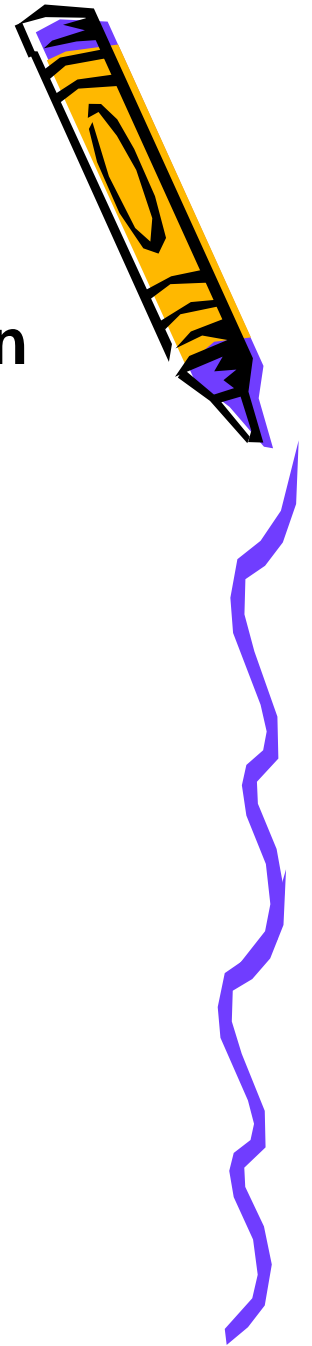
After-School Math: Bringing The Magic Back

Trainers: Al Rodriguez and Trang Truong

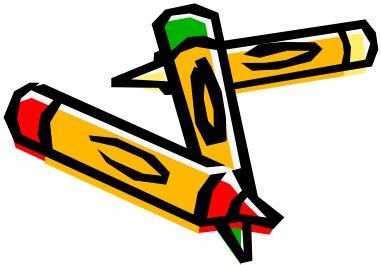
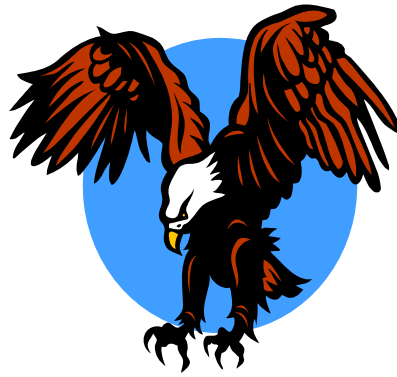
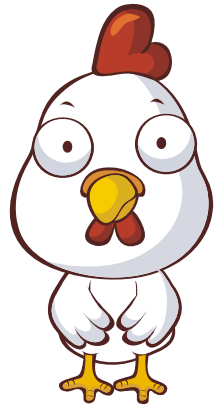


Objectives

- **Participants will understand the linkage between state math expectations and how they can be incorporated in after-school.**
- **Participants will be able to incorporate fun, exciting, and diverse math activities in after-school.**
- **Participants will learn hands-on and engaging math strategies to use with elementary school youth.**



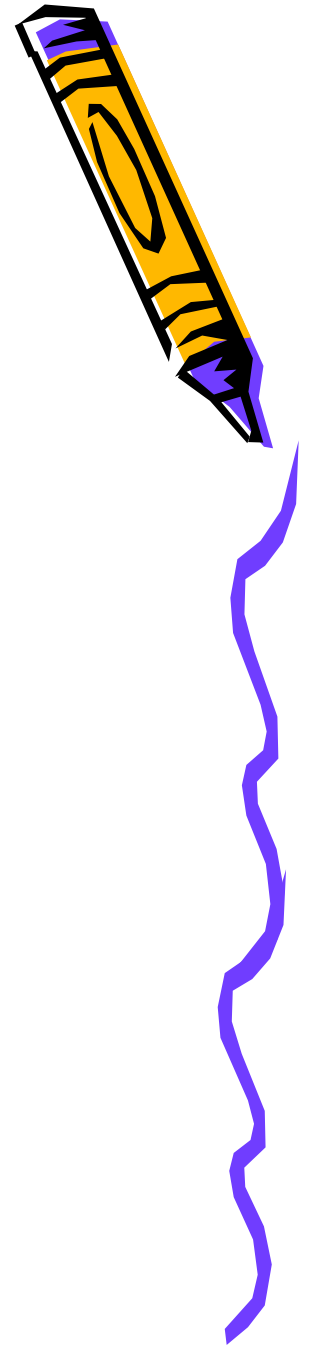
The Egg Game!



Content what.....???

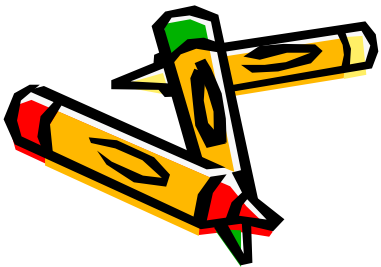


What Standards?????



Collaborating Learning Time!!!

- Discuss the statements posted on the right side of the room
- Write down which grade level each statement is referring to. (Kindergarten through 5th grade)
- Once your group finishes, everyone in your group needs to say at the same time "Oh Yeah!"



Number Sense (CDE Version)

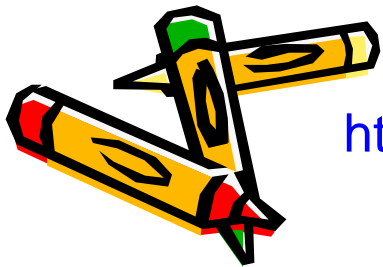
1.0 Students understand the place value of whole numbers:

1.1 Count, read, and write whole numbers to 10,000.

1.2 Compare and order whole numbers to 10,000.

1.3 Identify the place value for each digit in numbers to 10,000.

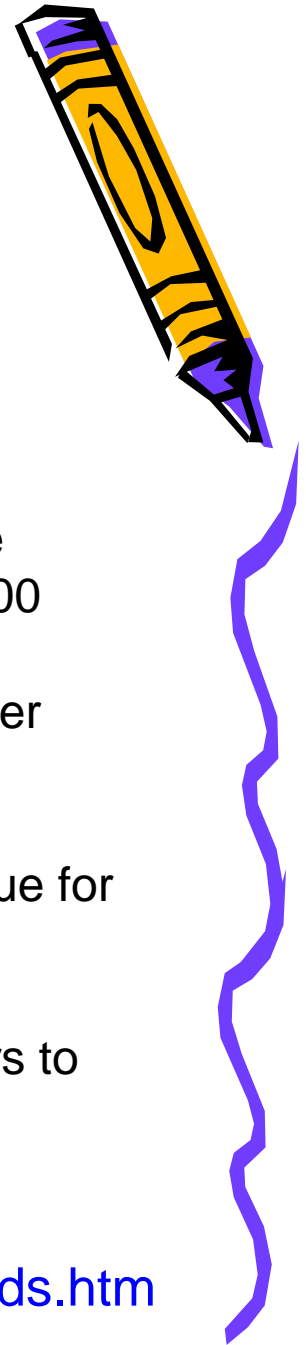
1.4 Round off numbers to 10,000 to the nearest ten, hundred, and thousand.



Kid/Parent Friendly

1.0 Number Sense

- I can count, read, write whole numbers to 10,000
- I can compare and order numbers to 10,000
- I can identify place value for each digit to 10,000
- I can round off numbers to 10,000



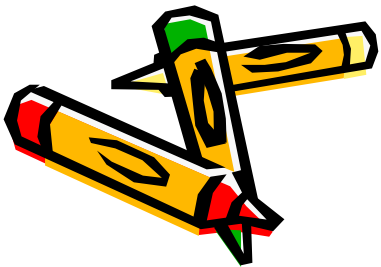
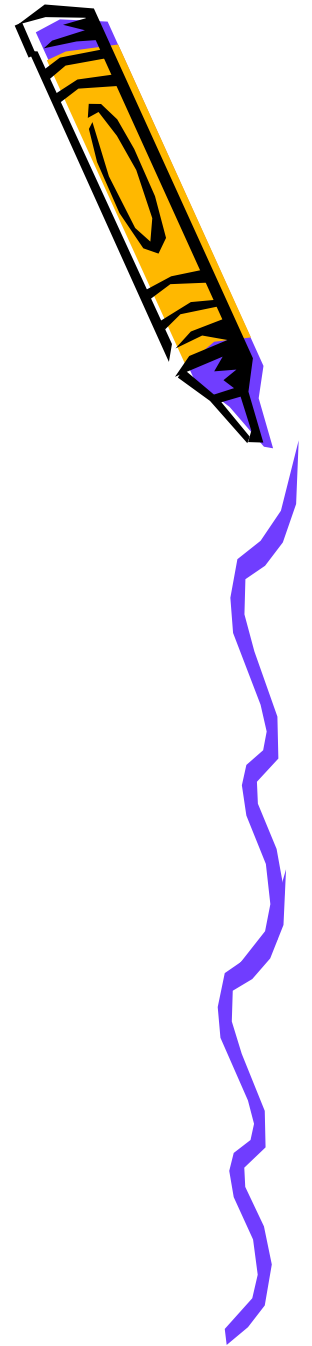
http://www.cabrillo.k12.ca.us/CUSD_topic/ca_standards.htm

Content Standards

- Content standards establish what every student can and needs to learn in all subjects according to their grade level.
- Standards focus on essential content for all students and prepare students for the study of various subjects.
- *“Content standards were designed to encourage the highest achievement of every student, by defining the knowledge, concepts, and skills that students should acquire at each grade level”* California State Board of Education”



Game Strategies 101



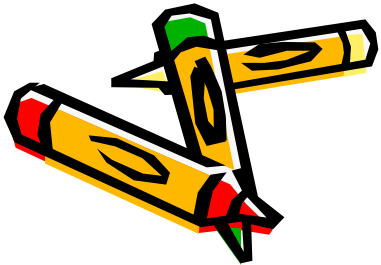
Before

1. Leader's Role

a. Read and play the game yourself

b. Understand the math

c. Play the game whole group
(until the kids understand the
concepts) before setting it out
to be youth led at a center



During



- a. Allow youth to make decisions
 - i. Who will go first?
 - ii. Changing rules
- b. Support the youth as they play
 - i. Encourage and assist
 - ii. Help youth play cooperatively and stay focused
 - iii. Show enthusiasm for math
- c. Encourage the youth to help each other in a respectful manner (no laughing at each other)
- d. Ask mathematical questions that promote learning/conversation (Ex: "How did you get that answer," rather than what answer did you get?)



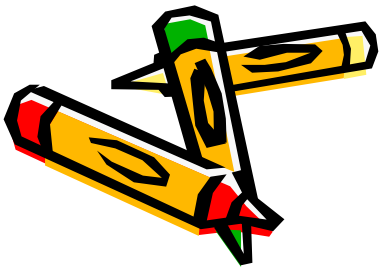
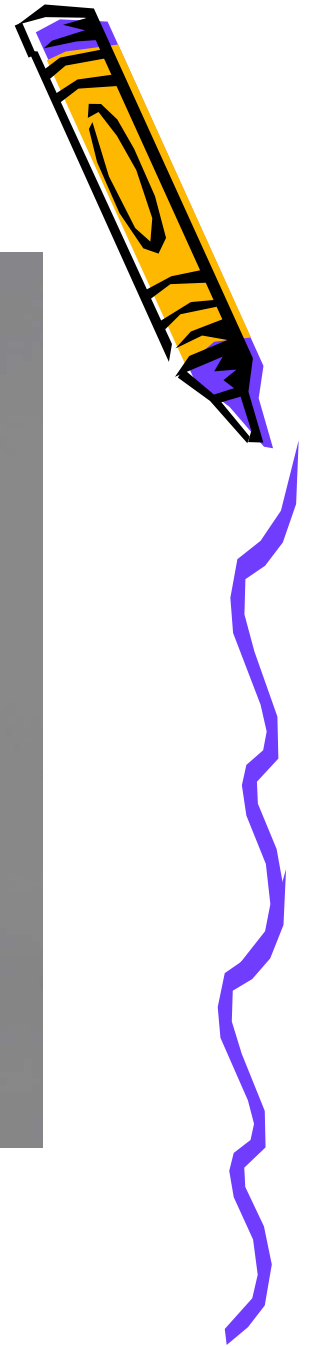
After

a. Ask about the game

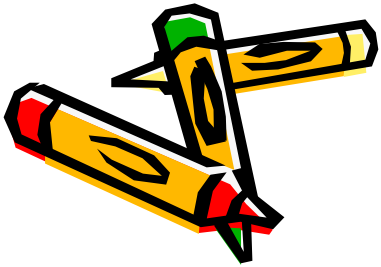
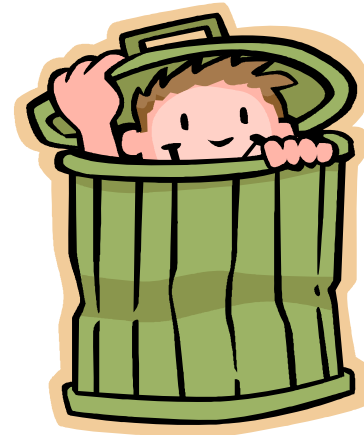
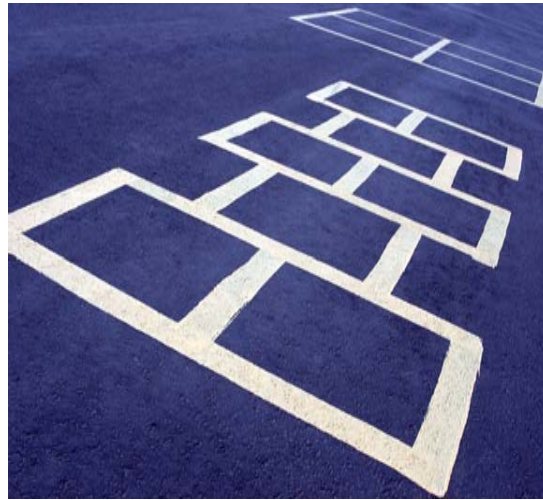
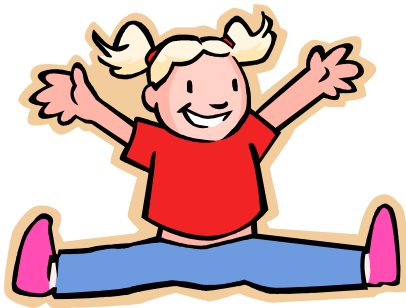
i. How did it go?

ii. What could be improved?

iii. How can we play this game differently?



Math Adventures Part I

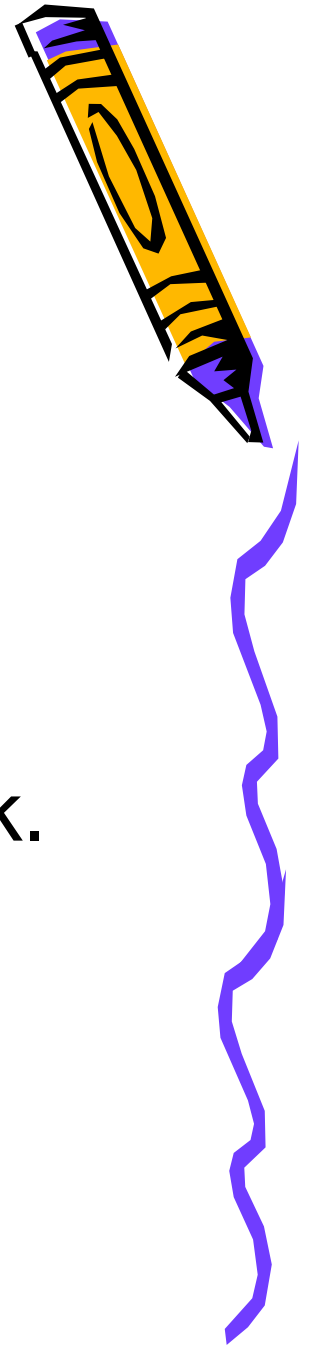


Break Time!!

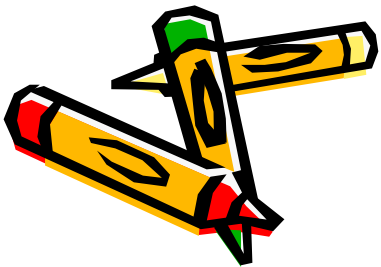
- What is 6×10 ?
- Take that number and divide by 2
- Take that number and subtract 25.
- This will equal your amount for break.



» See you in _____ minutes! =0)



Math Adventures Part II



Resources

http://www.cabrillo.k12.ca.us/CUSD_topic/ca_standards.htm

-Kid/Parent Friendly California Content Standards

<http://www.devstu.org/mathematics.html>

-Information on great math curriculum

<http://www.cut-the-knot.org/index.shtml>

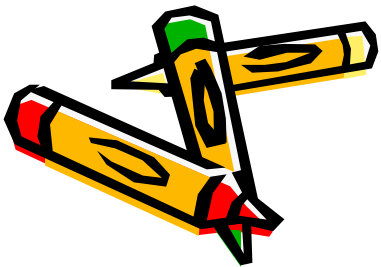
-Math problems for upper grades (6-12)

<http://www.funbrain.com/>

-Great website for online academic games

<http://www.kidsites.com/sites-edu/math.htm>

-Website with many math links



Wrap Up!

- Evaluation
- Action Plan
- Clean Up!

