7-8 Seating Chart:				
<u>Group 1</u>	Group 2	Group 3	<u>Group 4</u>	
Tessa	Cynthia	Nic	Ethan	
Air	Lizbeth	Will	Darielle	
Maxine	Jose	Pierre	Keymori	
Kayla	Jum	Anthony	Keyman	
<u>Group 5</u>	<u>Group 6</u>	<u>Group 7</u>	<u>Group 8</u>	
Sam D	Shawna	Omar	James D.	
Alex	Corinne	Justine	Matt L.	
James W.	JP	Megan	Jesus M	
Isaiah	Yasir	Lanie	Jordan	

### Feb 7-7:40 AM

# Happy Tuesday, February 7th!

Do Now:

- 1) Take worksheet from back table
- 2) Notebooks out please :)
- 3) Keep quiz to study from



Feb 7-10:26 AM





Oct 24-7:41 AM





Feb 7-8:06 AM





Feb 7-9:49 AM

Check out problem 1 on your worksheet:

Rate:

Time:

Initial Amount:

Growth or Decay?

#### Feb 7-10:02 AM





#### Feb 7-10:56 AM

Things to look for:

Half-life: Usually says "half-life"

<u>Time</u>: Time that is NOT your half-life

Initial Amount: The amount you start with



#### Feb 7-9:54 AM

Radioactive gold D98 (198 Au), used in imaging the  
structure of the liver, has a half-life of 2.67 days. If the  
initial amount is 50 milligrams of the isotope, how  
many milligrams will be left over after:  
$$43.90 \\ a) \frac{1}{12} \frac{1}{2} \frac{h=2.67}{A=50} \frac{4ays}{\sqrt{2}} = A(\frac{1}{2})_{(0.5/2.6)}^{(0.5/2.6)}$$
  
b) Tweek  $= 1 + 2$   
 $A = 50$   $\sqrt{2} = 50(0.5)$ 



Feb 7-9:49 AM

Things to look for:

The word CONTINUOUS

<u>Rate:</u> (usually a percentage) Convert to decimal

<u>Time</u>: This is your exponent

Initial Amount: (usually money).

Remember e is a number your calculator knows.



#### Feb 7-9:58 AM

Suppose Jorge deposits \$1500 in a savings account that earns 6.75% interest compounded continuously. He plans to withdraw the money in 6 years to make a \$2500 down payment on a car. Will there be enough funds in his account in 6 years to meet his goal? Explain.

# alg34modelingday1.notebook

## February 07, 2017



