## Backwards Design Template

Name of lesson／unit：Best place in LaSalle Co．for prom Grade Level： $\square$ k $\square 1$ $\square$ 2 $\square$
$\square$
$\square$
$\square$ 6 $\square$ 7 $\square$ $\checkmark 9$ $\square$
$\square$ 11 $\square$ $12 \square$ college Subject Area：〇ela ©math 〇science Technology $^{\text {O }}$

Links to Standards：These links will take you to a web page
CCSS ELA
CCSS Math
CCSS History／SS
Next Gen Science
Fine Arts
PE／Health
Computer Science／Technology
Foreign Languages

## Stage 1－Desired Results

Content Standard（s）：
Gopy and paste them here：
A．REI． 5 Prove that，given a system of two equations in two variables， replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions．
A．REI． 6 Solve systems of linear equations exactly and approximately
（e．g．，with graphs），focusing on pairs of linear equations in two variables．

| Understanding(s): <br> Students will understand that . . . <br> The solution of a system of linear equations is the intersections of the graphs of the functions. <br> The solution is the set of points that satisfy all equations in the system. Regardless of the method used, the solution to a system should not change. | Essential Question(s): <br> Where is the best place in LaSalle County to host prom? |
| :---: | :---: |
| Other Notes: <br> Students will take into account finances, location, food options, number of people, size of facility, ticket prices. |  |
| Stage 2-Acceptable Evidence |  |
| Performance Task(s) <br> How do the students prove they understand the concept(s)? <br> What are the tasks? <br> Create a linear system that relates to a <br> business situation. <br> Use Excel, graphing calculator, or online to graph the equations and show the break even point between costs and income. <br> Show the problem solved by elimination and substitution methods. <br> Determine the break even point. <br> Show the point of profit. | Other Evidence and Formative Assessment works: <br> Quizzes over elimination, substitution, and graphing methods. <br> Dialogues (develop systems of equations from situations) Work samples - homework based upon systems of linear equations |
| Rubric: Create a rubric at http://rubistar.4teachers.org/ <br> Copy the url to the created rubric and paste it here: <br> http://rubistar.4teachers.org/index.php?ts=1381506192 |  |
| Stage 3- Learning Plan |  |
| Learning Activities: <br> Type your lesson plan here: <br> 1) Present question. <br> 2) Discuss the necessities for organizing a prom <br> 3) Discuss what mathematical concepts are ne <br> 4) Go over how to write and equations. <br> 5) Work samples over writing and graphing equ <br> 6) Discuss the concept of a break even point and <br> 7) Students are to prepare a poster, proposal, where the best place in LaSalle County is to hos earlier into account. | essary to complete this task. <br> ations. <br> d point of profit. <br> some other type of presentation that shows prom, taking all considerations mentioned |

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Adapted from Grant Wiggins and Jay McTighe-Understanding by Design

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