

Ohio's Science Learning Standards Checklist  
Grade 5  
Pacing Guide with "I Can" Statements

# Ohio Science Standards Pacing Guide

**Mike Jess**

## **Ohio Science Standards Pacing Guide:**

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*Educational Media and Technology Yearbook* ,1996    ERIC Educational Documents Index Educational Resources Information Center (U.S.),1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education    **Medical Device Materials II** Michael Nevin Helmus,Dana Medlin,2005    **Resources in Education** ,1996    **Bibliography of Scientific and Industrial Reports** ,1969-10

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web  $\det ab = \det a \det b$  if a is invertible then  $\det a \neq 0$  solution problems let a =  $\begin{pmatrix} 8 & 1 & 6 & 3 & 5 & 7 & 4 & 9 & 2 \end{pmatrix}$  notice that a contains every integer from 1 to 9 and that the sums of each row column and diagonal of a are equal such a grid is sometimes called a magic square compute the determinant of a

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examine what the elementary matrices to do determinants

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$$a = \begin{array}{ccccccccc} 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ 3 & 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 \end{array}$$
 
$$a^5 = \begin{array}{ccccccccc} 2 & 0 & 1 & 1 & 2 & 1 & 1 & 0 & 1 \\ 3 & 1 & 1 & 0 & 0 & 1 & 1 & 3 & 1 \\ 1 & 1 & 5 & 4 & 4 & 4 & 5 & 4 & 4 \end{array}$$
 problem 2

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$$\begin{array}{l} a_1 x + b_1 y + c_1 z = 1 \\ a_2 x + b_2 y + c_2 z = 2 \end{array}$$

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web evaluate the determinant of a 2 2 2 matrix if a matrix has the same number of rows and columns we call it a square matrix each square matrix has a real number associated with it called its determinant to find the determinant of the square matrix 
$$\begin{array}{cccc} a & b & c & d \\ a & b & c & d \end{array}$$
 we first write it as 
$$\begin{array}{cccc} a & b & c & d \\ a & b & c & d \end{array}$$

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows 
$$\begin{array}{ccccccccc} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{array}$$

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