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LESSON PLAN

Grade/Course: GEOMETRY 1206310

Grade Level:11thHigh School

A)TEXT BOOK: Glencoe Geometry, Student Edition [Hardcover]

McGraw-Hill (Author)

ISBN-10: 0078651069 | ISBN-13: 978-0078651069 |

Order No.: 1	Code:GEO1002	Class Type: Online
Resources:		Instructional Supports:
Text book		Textbook, Magazines, Journals, Websites
Teacher works CD		Links, Conference, Comprehensive Reading
Teacher interactive		Plan
online		
Links		
Sky Conference	Length: 1 year	
Area: Mathematics	Credits: 1	Total Numbers of class hours:300 hrs
Type: Mandatory	Standards:	Prerequisite:
	Florida Sunshine State	Students must have successfully passed
	Standards	Algebra.

B) LESSON PLAN Description:

A full year, high school math course for the student who has successfully completed the prerequisite course, Algebra I. The course focuses on the skills and methods of linear, coordinate, and plane geometry. In it, students will gain solid experience with geometric calculations and coordinate plane graphing, methods of formal proof, and techniques of construction. By the end of the course, students will be expected to do the following: • Understand defined terms, axioms, postulates, and theories. • Apply rules of formal logic and construct proofs in two-column format.

Know how to solve for angles given parallels, perpendiculars, and transversals.
 Demonstrate how to solve for sides and angles of triangles, quadrilaterals, and polygons.
 Understand trigonometric ratios and know how to use them to solve for unknown sides and angles in given triangles as well as application word problems.
 Be able to determine arcs, chords, and sectors of circles.
 Calculate perimeter, area, and volume of figures and solids.
 Graph lines and determine slopes, midpoints, and distances.
 Make geometric constructions on paper.
 Represent results of motion geometry (translation, rotation, reflection, dilation).

C) LESSON PLAN Objectives:

- 1. is the study of two- and three-dimensional objects and their properties.
- 2. to develop in all students will learn geometric and their applications
- 3. to promote an awareness of Geometry

D) LESSON PLAN Contents:

Chapter 1 (Weeks: 1-2)

Tools of Geometry

Chapter 2 (Weeks: 3-4)

Reasoning & Proof

Chapter 3 (Weeks 5-6)

Parallel & Perpendicular Lines

Chapter 4 (Weeks: 7-8)

Congruent Triangles

Chapter 5 Weeks: 9-10)

Relationships in Triangles

Chapter 6 Weeks 11-12)

Ouadrilaterals

Chapter 7 (Weeks: 13-14)
Proportions & Similarity
Chapter 8 (Weeks: 15-17

Right Triangles & Trigonometry

Chapter 9 (Weeks: 18-21)
Transformations & Symmetry
Chapter 10 (Weeks: 22-25)

Circles

Chapter 11 (Weeks: 25-30)
Areas of Polygons & Circles
Chapter 12 (Weeks: 31-35
Extending Surface Area Volume

F) LESSON PLAN: Reference, Websites, Journals, Magazines and book

- 1.Geometry [Hardcover] by Ray C. Jurgensen and Richard G. Brown(Authors)
- 2. Tutor in a Book's Geometry Paperback by Jo Greig(Author), James R. Shiletto Ph.D(Editor)
- 3. Geometry: A Comprehensive Course (Dover Books on Mathematics) Paperback
- 4. McDougal Littell Geometry for Enjoyment & Challenge: Student Edition Geometry 1991 [Hardcover] MCDOUGAL LITTEL (Author)

H) Web Reference:

http://www.calculatorsoup.com/calculators/geometry-calculators.php

www.mathsisfun.com/geometry/index.html

www.geometry.com

www.101science.com/Geometrylinks.htm

www.linkstolearning.com/links/geometry1.htm

www.en.wikipedia.org/wiki/Link (geometry)

www.math-play.com/Geometry-Math-Games.html

www.linkstolearning.com/.../geometry_-_high_school.htm

http://www.mathsisfun.com/links/curriculum-high-school-geometry.html

www.homeworkspot.com/high/math

I. Journals:

Algebraic & Geometric Topology

Advances in Applied Mathematics

Advances in Mathematics

Advances in Theoretical and Mathematical Physics

Algebra & Number Theory

American Journal of Mathematics

American Mathematical Monthly

Analysis and Applications

J.Magazines:

Math Horizons

K. Organizations:

National Council of Teachers of Mathematics (N.C.T.M.)

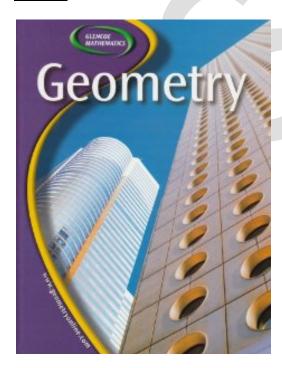
M. Comprehensive Reading Plan

Students are required to read at least 1 book or their equivalent during each class as independent reading at-home. Students must also read for 30 minutes at home as part of their daily homework assignment in all subjects. Check your Class Reading Assignment at www.usicahs.org/curriculum and check free ebooks at www.openlibrary.org.

Text Book Description

Publication Date: January 1, 2005 | **ISBN-10: 0078651069** | **ISBN-13: 978-0078651069** | Edition: 1.Glencoe Geometry is the leading geometry program on the market. Algebra and applications are embedded throughout the program and an introduction to geometry proofs begins in Chapter 2.

BOOK:



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