

Name: _____

Your Unit Percentage: _____ %
(Self-Assessment)

Period: _____

M.T.H.S. - 3D Modeling
Mr. S. Carlson

Date: _____

Unit 2: Precision 3D Modeling with Rhino - Part 1 (pp. 47-93)**Unit Instructions and Activities Checklist (5 day unit)****Unit Objectives:**

The student will be able to:

1. Draw with precision using coordinate input and object snaps
2. Learn basic 3-D modeling commands -- polyline, revolve, shade, osnaps, circle, arc, extrude.

Textbook: *Rhinoceros - Training Manual - Level 1* by Robert McNeel & Associates

Directions: Each Rhino Unit has 4 exercises to complete, combine neatly, date, self-assess, initial, and turn in. Read carefully and follow all of the exercise directions below. **In ALL exercises View > Zoom > Extents > All and then Synchronize views neatly. Always CENTER your models and viewports so they are as LARGE as possible but with nothing cut off. Always print in LANDSCAPE format.**

No.	Exercise Description	Date	Percent	Your Initials
1. (1 day)	Model 2-1: Arrows (p. 53, Exercise 15) (20%) Review Exercises 9-14 as necessary. Do Exercise 15 by the numbers (accurate) and then make a cool custom second arrow next to the first arrow. There should be a horizontal centerline in the center of the object drawing on p. 53. Both arrows are in the same file facing the same direction. For turn in (ask instructor about color to render in): a. Print 4 viewports wireframes. (10%) b. Print perspective v/p rendering w. white background. (10%)		20?	
2. (1 day)	Model 2-2: V-Block (p. 63, Exercise 17) (30%) Review Exercise 16 as necessary. Do Exercise 17 with Front View totally correct. There should be a vertical centerline in the center of the textbook object drawing on p. 63. Next do your last name initial just to the right of the V-Block. For turn in (ask instructor about color to render in): a. Print 4 viewports wireframes. (15%) b. Print perspective v/p rendering w. white background. (15%)		30?	
3. (2 days)	Model 2-3: Connecting Rod (p.93, Exercise 23) (30%) Review Exercises 18-22 as necessary. Do Exercise 23 in Top Viewport totally correct. There should be a horizontal center-line in center of textbook object drawing on p. 93. For turn in (ask instructor about color to render in): a. Print 4 viewports wireframes. (15%) b. Print perspective v/p rendering w. white background. (15%)		30?	
4. (1 day)	Exercise 2-4: Rhino Worksheet 2 (20%) Review the Training Manual and your notes as necessary and complete Rhino Worksheet 2 (both sides). For turn in: a. Rhino Worksheet 2 completed		20?	
5.	Assembling Your Work For Submission (-5%?) <u>Neatly Assemble</u> The 7 Papers Above In Correct Order And Staple To This Sheet. 5% OFF For Collating And Stapling That Is <u>NOT Very Neatly Done</u> . One staple max. All assignments to read from <u>BOTTOM</u> or <u>RIGHT</u> . Place your individual self-assessment percents in boxes and the unit total at the top above.		Minus 5?	