THE FISHPOND 1

Name _____ Date_____

The class has decided to donate a fishpond to the school as a class gift. Solve the problems below, carefully recording how you got your answer.

1. The plot of land available is 25 yards long and 20 yards wide. It needs to be fenced in for safety. A design team has selected a black five-foot high aluminum fence. This fencing comes in five-foot sections, each costing $70.75. There will be two four-foot wide gates, costing $218.69 each. The gateposts are $27.50 each. The design calls for ball caps, costing $5.25 each, to be on each gatepost. A local fence installer will charge $22.00 per hour and anticipates this job taking 4 hours. How much will it cost to put a fence around the plot of land?

2. The selected fishpond is a 4-yard by 5-yard rectangle. It will be placed exactly in the center of the plot of land. Make a model of the plot of land with fishpond and fence openings on the paper provided. Decide on your own scale.

3. Now it is time to fill the fishpond. Use the blocks to make a model of your fishpond. One block represents a cubic yard (1 yard wide, one yard long and 1 yard high). How many cubic yards are needed to fill the pond if it is one yard deep? What if you decided to make the fishpond two yards deep? Three yards deep?

4. Now it is time to lay sod on the area within the fence, excluding the pond of course. How many square feet of sod will you need to buy? It costs $1.99 per square yard. How much will it cost?

The Fishpond 2

Name _____ Date_____

The class has decided to donate a fishpond to the school as a class gift.   The land available is 75 yards by 50 yards. Work with your partners to design the pond and landscape the area. Of course fencing will be needed as will grass, a pump, and of course the fish. You want to make your design as appealing as possible. Think about shrubbery, benches, lawn ornaments, etc.   Maintain an Excel Spreadsheet to track costs. Be prepared to present your design to a panel of judges.   They will be looking for a cost-effective yet appealing design.