

 is for...

## TWELVE WORDS

Included in the pocket of your puzzle folder you should find a cut-out piece of paper of a yet-to-be-folded-up Truncated Icosahedron (you should actually have more than one copy, I've given you extras). The cut-out consists of twenty regular hexagons and twelve regular pentagons joined along perforated edges (along which you will fold). The pentagons are numbered 1-12 and have circular arrows in a clockwise direction.

Your task is this: on each of the twenty (blank) hexagon faces write in a letter of the alphabet such that, when you fold the model together, and read clockwise around each pentagonal face, you should see a five letter word (there are twelve pentagons, so you should end up with a dozen 5-letter words).

When you have completed your model, bring the puzzle to Eric for scoring. Your score will be calculated as follows:

$$5 \times [\text{Number of distinct letters}] \times [\text{Number of distinct 5-letter words}]$$

If you are unable to arrange twelve valid words, the score will be calculated using the lesser number of 5-letter words you are able to fit on the model; however, you will only receive the Meta-Puzzle "T-piece" if twelve 5-letter words are formed. The model must be folded together (and taped) to get credit. Validity of words will be judged by their inclusion in the current North American Tournament Scrabble Word List (an electronic version of that word list is at <http://www.ericarshbarger.org/epp/2011/TWL06.txt> ).

You may repeat letters and even repeat formed words, but that will lower your score.

Bring your puzzle to Eric no later than 11:00am on Sunday morning for scoring.