When bees play Tetris, they use hexagons instead of squares. That is, each playing piece is made up of four adjacent hexagons, in some configuration (a hexa-tetromino). The goal of the game is to completely cover a regular $n \times n \times n$ hexagonal grid with non-overlapping playing pieces. For example, the $4 \times 4 \times 4$ grid above is partially covered with playing pieces, although this might not be a correct start. You can use the same shape as many or as few times as you like.

**The Challenge:** For which $n$ is it possible to completely cover a regular $n \times n \times n$ hexagonal grid with non-overlapping hexa-tetrominos? Prove your answer.

Submit solutions to Ross 2239G or oscar.1evin@unco.edu by **Friday, September 30**.

The best solution will WIN A PRIZE! Prizes include nifty Rubik’s style puzzle cubes, math puzzle books, math games, even a math coloring book. So submit your answer TODAY!