RESEARCH PROJECT #1
How Many Neutrinos?

Hold up your hand and count “1 Mississippi”. In that time, trillions of neutrinos flew right through your hand! In fact, 3 trillion neutrinos pass through a square centimeter in a second! You can figure out how many neutrinos go through YOUR very own hand every second by doing this project.

First, trace your hand on this grid.

Each box is about one square centimeter. Lightly shade in the boxes that your hand has covered. Now count up the boxes that you have shaded in. (Every two half-boxes make one more whole one). Write the number of colored boxes here:

Your hand is ___________ boxes (or square centimeters) big.

Now here is where you need to do some math. You can use a calculator or ask a parent to help you. Take your number and multiply it by 3:

_________ (square centimeters) x 3 = ________________

This is how many trillion neutrinos go through your hand every second!