



# ULTIMATE TIC TAC TOE

<https://aiminghigh.aimssec.ac.za/ultimate-tic-tac-toe/>

Two players (X and O) play 9 simultaneous games of Tic Tac Toe on a 9 by 9 mega-board taking turns to put their mark on one of the 81 squares. X starts. **To win a player must win games on 3 mini-boards in a row.** The position

A1	2	3	B			C		
4	5	6						
7	8	9						
D			E			F		
G			H			I		

by a player on a 3 by 3 mini-board forces the next player to play on the mini-board that is in the same relative position on the mega-board as shown in the example. If the first move by X was at E8 in the mini-board E as shown, then O is forced to play next on mini-board H, shaded in red in the mega-board. O plays at H5 in the centre of board H forcing X to play again somewhere on mini-board E.

A	B	C			
D	E	F			
			X		
G	H	I	O		