## Pong Program Preparation Planning

We're ready to write our first game! Part of programming is breaking down a problem into smaller pieces that you can solve separately. You then combine these smaller pieces into larger components until you have the whole program put together.

For the Pong game, use this planning worksheet to help design your code BEFORE you start writing. Read over **all** the requirements in the left column. Take a few minutes to think before filling out the rest of the worksheet. The first row is an example.

Game component	What's going on?	What owns the logic?	What triggers the change?	What could be tricky?	Pseudocode
Players can control paddles with required keys	Paddle moves up or down	Paddle sprite	Press up or down arrow Press w or s keys	When paddle gets to the top or bottom it can't move anymore	Left paddle variable: left speed  if sprite is hitting top edge of canvas OR hitting bottom edge of canvas then reverse paddle movement  When up arrow is pressed If paddle is moving down stop paddle
Ball begins play at middle of field at start of game and after each point					else change direction to up

5 !!!			
Ball bounces correctly			
off upper and lower			
edges of paddles			
Dell incurses and ad			
Ball increases speed			
each time it bounces			
off a paddle			
Scara a point for the			
Score a point for the			
opponent when the			
ball touches the left or			
right edge			
Game ends when one			
player reaches five			
points			

Winning player is shown when the game ends			
Players can begin a new game			