

Adjusted PPG

Teams at our Qualifier tournament will have their raw PPG (Points Per Game) adjusted for the strength of the opponents they played against at their site. This metric will be used when selecting wildcard qualifiers to our Championships. The formula for adjusted PPG is:

$$AdjPPG = RawPPG \times \frac{1000 - GlobalPPG}{1000 - OppPPG}$$

where:

- GlobalPPG is the average PPG of all teams that played in the Qualifier across all sites
- OppPPG is the average PPG of the opponents that your team faced at the Qualifier (if you played an opponent more than once, their PPG is weighted accordingly)

High school B division games are ignored in all calculations. All other games are included in PPG calculations, even games that are "dropped" for the purpose of determining tournament standings.

Adjusted PPG is intended to compensate for the fact that not all sites of the Qualifier will be equally strong. Each team will have their raw PPG scaled so that if they faced harder-than-average opponents, their PPG is adjusted upwards, and if they faced easier-than-average opponents, their PPG is adjusted downwards.

The scaling factor in the above formula represents how many questions per pack were *missed* by the average team (each pack at the Qualifier will contain a total of 1000 possible points), compared to how many were missed by your team's average opponent. The inherent assumption is that if your team's opponents left more points on the table than the average team, your team converted these "extra" points at the same rate as your team scored points in the tournament. Likewise, if your team's opponents left fewer points on the table than the average team, the assumption is that your team would also have converted the "extra" points at that same rate as if you were playing against an average team.

Qualification for the Championships

Before the Qualifier tournaments are played, we will announce the total number of teams who will qualify to the Championships. For high school, only teams that compete in the A division of the Qualifier are eligible to qualify their school. The qualification process is described below.

The first-place team from each site of the Qualifier will qualify for the Championships automatically.

Next, the second-place teams from each site will be compared, and whichever has the highest Adjusted PPG will qualify. The other teams from that site will be shifted up, with the third-place team from that site having its Adjusted PPG compared to the second-place teams from the other sites. Among those teams being compared, the team with the highest Adjusted PPG will qualify. This process will continue, with the highest-ranking not-yet-qualified teams from each site having their Adjusted PPGs compared, and the highest earning a spot at the Championships. (If two teams happen to have the same Adjusted PPG, the team with the better record, then PPG, *against the teams from their site who have already qualified* will qualify.) The process will end once the set number of teams have qualified.