For my ignite project I used an NBA statistic PER to graph who is the greatest NBA player of all time. I also used the statistic to find who is the best current NBA player according to the stat.

**What is PER (Player Efficiency Rating)?**

The player efficiency rating (PER) is John Hollinger’s all-in-one basketball rating, which attempts to boil down all of a player's contributions into one number. Using a detailed formula, Hollinger developed a system that rates every player's statistical performance, and averages into a percentage.

PER attempts to calculate a player's per-minute output while accounting for pace. A league-average PER is always 15.00, allowing for season-to-season comparisons of player performance.

PER considers both positive and negative outcomes, including field goals, free throws, 3-pointers, assists, rebounds, blocks, and thefts, as well as missed shots, turnovers, and personal fouls. Using a statistical point value system, the formula adds positive statistics and subtracts negative ones. The rating for each player is then modified to a per-minute level, allowing substitutes to be compared to starters in discussions over playing time, for example. It's also tailored to the team's speed. Although PER is not a perfect statistic it is the closest thing to proving who is the greatest of all times as it factors in literally everything someone does in a game.

**What did I do?**

I gathered the top 100 players of all time and found there PER and then used excel to form a graph of there PER, I then found the top 100 players of the current NBA season and designed a graph to show who is the best currently according to the stat.

**My Findings –**

**ALL time graph of Top 100 players PER**



**As the Graph shows Michael Jordan is only slightly statistically better then Lebron James, proving that he is the greatest NBA player according to this statistic.**

**Top 100 NBA players season 2021 PER –**

[**2021 PER Graph**](https://ivanhoegrammarschool-my.sharepoint.com/%3Ax%3A/g/personal/mzappo24_igs_vic_edu_au/EchARq1zuEtGvKeSb1fVtAwBbv-DjLqVAKuttIWxko94HA)