

## SportsNoggin – League Golf Noggin (LGN) Handicap Calculation

LGN uses a system that is similar to the USGA Index / USGA handicap system. However, a SportsNoggin Index (SNI) is NOT the same as a USGA Index and should not be presented as one. With that said, here's how the SNI and resulting course handicap is calculated. The first step is to establish a SNI. The next step is to convert the SNI to a handicap for the particular course and tees that a person is playing.

### SNI Calculation Steps

1. Calculate your **Adjusted Score** used for handicap purposes: Triple bogey is the maximum score for any particular hole. Any score greater than a triple bogey is reduced to a triple bogey for handicapping. Note: This is not suggesting that user record anything but an actual score. It simply means that the maximum score used for handicap calculations is a triple bogey.
2. Determine the **SNI Differential**:  

$$\text{SNI Differential} = \text{Adjusted Score} - (\text{Course Rating} * \text{Holes Played}/18) * (113 / \text{Slope})$$
3. Determine the **SNI Differential to Hole Ratio**:  

$$\text{SNI Differential to Hole Ratio} = \text{SNI Differential} / \text{Holes Played}$$
4. Calculate the SNI by using the best (lowest) 50 % of available scores based on the SNI Differential to Hole ratio.
  1. Available scores are rounds played within 120 days of the last recorded score. A maximum of the 30 most recent scores are used to calculate the SNI
  2. Determine the best 50% of the available scores for use in the SNI calculation. The best scores are those with the lowest **SNI Differential to Hole Ratio**. The best 50% of scores is truncated to the lowest integer value with the exception of 1 round played. Please see the table below.
  3. Calculate the **SNI Differential Sum** for the scores deemed as the best 50%
  4. Calculate the **Holes Played Sum** for the scores deemed as the best 50%
  5. Calculate the **SNI** (18 hole basis):  

$$\text{SNI} = (\text{SNI Differential Sum} / \text{Holes Played Sum}) * 18 * 0.96$$
 Note: SNI is Rounded to nearest hundredth

Number of Rounds	Number Used For SNI (Best 50%)
1	1
2	1
3	1
4	2
5	2
6	3
...	...
30	15

### Course Handicap Calculation Steps

Course handicap is derived from the golfers' SportsNoggin Index (SNI) and the slope rating of the course. To calculate your course handicap prior to a match, you can use the provided link from "My SportsNoggin". However, you must have your SNI as well as the slope rating of the tee you are playing in order to calculate your course handicap. Here is the formula that is used:

1. **Course Handicap (9 Hole) = SNI \* (Slope Rating/113) \* (holes/18)** where holes = 9

*Note: The league admin specifies the number of weeks (league days/nights) to postpone point calculation in an attempt to achieve accurate handicaps for league members. That is, after this many weeks, a golfer should have played enough times to have a reasonably accurate handicap. For example, if this option was set to 4, point calculation would not start until the fourth set of scores were entered. Handicaps are calculated after each week, but all point calculations for weeks 1 - 4 would be based on the handicap calculated after the scores for the 4th week are posted. Please note that this setting governs the number of league weeks/rounds, not individuals. For example, if individual golfers missed the first few weeks and this setting was 4, point calculations would still take place after week 4 even if certain golfers had less than 4 rounds played. Please also be aware that after the "establish period" is complete, points are calculated each week using the handicap that golfers have at the time of the round. An exception to this is when a new substitute plays. If the substitute does not have a handicap when starting the round, one will be calculated after the scores are entered (retro-calculated) and this handicap will be used for point calculation purposes.*