

GlycoGin! The object of the game is to use all of your cards to form a single connected series of structures and enzymatic steps in glycolysis.

A **2 player** game uses a deck of 44 cards: 22 structure cards, 20 enzyme cards, 1 Structure Wild Card and 1 Enzyme Wild Card. Each player is dealt 10 cards and a card is turned face up to start a discard pile. The first player has the option of taking the card turned up or drawing a new card from the deck. That player must then discard a card face up on the discard pile so that they have only 10 cards at the end of their turn. The player going second has the option of taking the card discarded by player one or taking a new card from the deck. Player 2 must discard one card face up on the discard pile. A player must wait until the end of their turn to declare *GlycoGin!*

Scoring: The first player to have a single connected series that uses all ten of their cards declares *GlycoGin!* and lays out their cards to receive 100 points. If the player can use all 11 cards (before discarding), that player receives 125 points (Super *GlycoGin!*). The player who did not go out receives 5 points for each card that is in a series of 3 or more cards and subtracts 5 points for cards that are **not** in a series of 3 or more. The winner of the game is the first player to reach 500 points.

A **Structure Wild Card** can be used to represent **any** of the 11 molecules in glycolysis. An **Enzyme Wild Card** can be used to represent **any** of the 10 enzymatic steps in glycolysis.

For **3 to 4 players**, use a deck of 46 card by adding two extra Wild Cards. Each player receives 8 cards in the beginning, and must have 8 cards at the end of their turn. *GlycoGin!* (using all 8 cards) is worth 80 points and Super *GlycoGin!* (using 9 cards) is worth 100 points. The other players receive 5 points for each card in a series of 3 or more and must subtract 5 points for each unused card.

For **5 to 6 players**, use the full deck of 48 cards, but each player receives only 6 cards in the beginning. *GlycoGin!* (using all 6 cards) is worth 60 points and Super *GlycoGin!* (using 7 cards) is worth 75 points. The other players receive 5 points for each card in a series of 3 or more and must subtract 5 points for each unused card.

The deck includes four cards that show the steps in glycolysis. These can be incorporated in the game as well to help students with the steps. A downloadable version of the steps in glycolysis can be found at periodicgames.com