

The Energy Yield of Cellular Respiration

Students must look for a partner and calculate the number of ATP yield of the aerobic cellular respiration, including glycolysis, Krebs cycle, and electron transport chain. The shuttle systems must be used in this phase of the activity, recall that 1 NADH molecule just corresponds to a molecule of ATP. Students will be asked to calculate the total number of ATP molecules that can be generated by consumption of soft drink which contains 48 grams of sugar, assuming that all of it were glucose.