A classical result states that the action of $\mathfrak{gl}(V)$ and the symmetric group on $d$ letters mutually centralize each other on the $d$-fold tensor of $V$. If $V$ admits an action by $\mathbb{Z}/r\mathbb{Z}$, it induces an action of the wreath product of $\mathbb{Z}/r\mathbb{Z}$ and the symmetric group on $d$ letters. A Levi Lie subalgebra $\mathfrak{g}$ of $\mathfrak{gl}(V)$ gives the full centralizer of this action, and we further showed a presentation for the cyclotomic Schur algebra as a quotient of the enveloping algebra of $\mathfrak{g}$. This also provides a PBW type basis and a second presentation with idempotent generators. These results extend to the quantum setting and yield similar presentations and a basis for the cyclotomic $q$-Schur algebra. When $r = 2$, they become presentations for the Type B hyperoctahedral Schur algebra defined by Richard Green. (Received September 07, 2017)