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The Schur-Weyl duality between the symmetric group and the general linear group allows us to connect the representation theory of these two groups. A consequence of this duality is the Frobenius formula which connects the irreducible characters of the general linear group and the symmetric group via symmetric functions. In this talk we use the Schur-Weyl duality between the partition algebra and the symmetric group to give the analogous Frobenius formula. We then show how we can use symmetric functions to study the representation theory of the partition algebra and how this relates to the Kronecker coefficients. This is joint work with Mike Zabrocki. (Received August 25, 2016)