

>> Diane Jewell: Change 270 degrees Fahrenheit to Kelvin. We don't have an equation that changes Fahrenheit to Kelvin. We do have an equation, though, that will take us from Fahrenheit to Celsius. We have a second one that takes us from Celsius to Kelvin. And so we're going to have to work this problem in two steps, okay? You're going to want to use the equation where you're solving for degree C. In other words, temperature and degree C should be isolated. And then degrees Fahrenheit should be in the rest of the equation. So you've got your 270 minus 32; 270 minus 32 once you subtract it then divide that number by 1.8. You find that degree C you have temperature of 132. Now you're going to take that and use this equation here. Because we're solving for temperature in Kelvin we want temperature in Kelvin all by itself over here. So we're going to take our 132 degree C, where's our Tc plus our 273, and they add up to 405 Kelvin. So you can see in two easy steps we've changed from degrees Fahrenheit to Kelvin. Notice one other thing about this is you see Fahrenheit and Celsius we have degree sign. On Kelvin we have no degree sign. That's because Kelvin is just Kelvin. It's not degrees Kelvin, and to put degrees with Kelvin would actually be incorrect because the units are simply Kelvin.