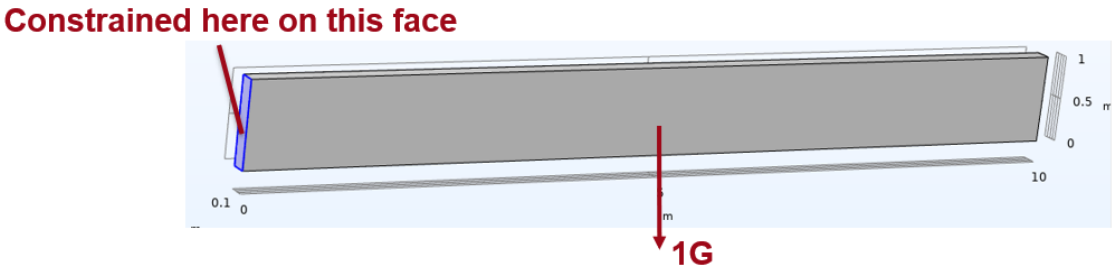
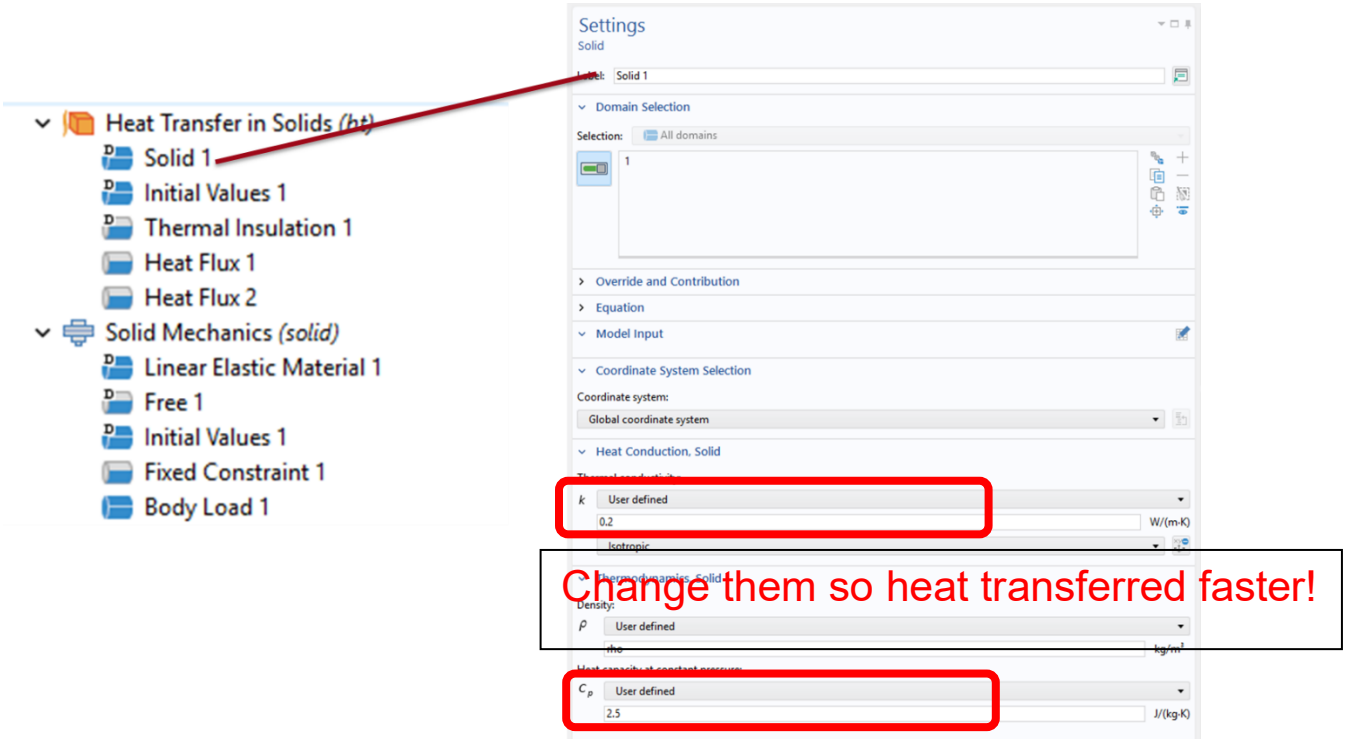
ENR145 Assignment #7: happy COMSOL folks!

Due: 3/11/26 12:00 pm

Show me that you do can a solid-heat coupling model of a wax beam. Work out the beam of slide #9 and #10.



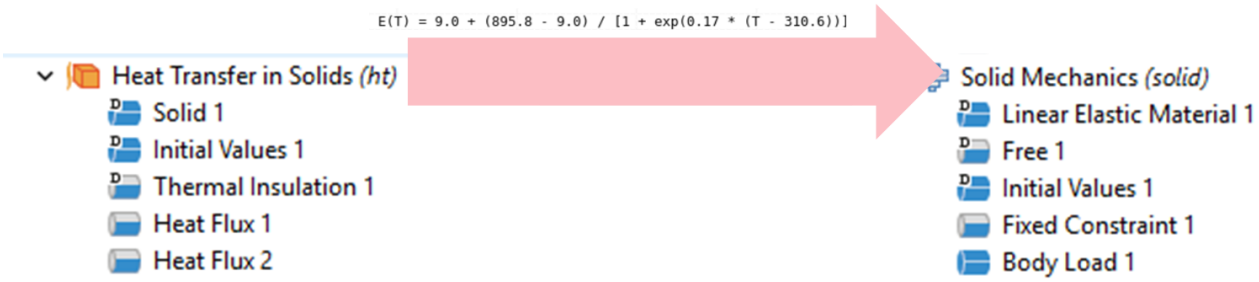
For heat transfer, you need to increase the k and C_p value so the heat gradient established in 1 min.



Now couple this T dependent E into the solid mechanics

E = 9.0 + (895.8-9)/(1+exp(0.17*(T-310.6)))

You have to play with the range to speed up the simulation.



To prove your effects, submit a slide with screenshot of crucial steps, and the result of stress and strain surface and slice view. Show me the stress & strain of different time point.