ESA 21: Environmental Science Activities

Activity Sheet
R-factor

Name:

Lecture Professor:

Time (minutes)	½" Plywood Box		½" Insulating Board		1" Insulating Board	
	Inside T	Outside T	Inside T	Outside T	Inside T	Outside T
Temperature Difference (^{o}C)						

Convert Temperature difference in ^{o}C to difference in ^{o}F for the equation below.
Use the conversion: Temperature Difference = _____ ^{o}C x 1.8 = _____ ^{o}F

and the equation : $$R - Value = \frac{(1.25\,\text{ft}^2)(____\,\text{oF})}{(___\,\text{Watts})(3.41\,\text{Btu/W}\bullet\text{hr})}$$

	½" Plywood Box	½" Insulating Board	1" Insulating Board
R- Value			