

Homework: For Teacher Training, please try to complete the chart below before training day. Trust us, this will help you immensely to understand the material better. Instructions are on the pages that follow.

Life Support Team- Data Tracking Table Oxygen

Column	A	B	C	D*	E	F	G
Table Headings	UTC	Total Atmospheric Pressure	Oxygen Content	O2 Partial Pressure	Change in O2	Rate of Change	Time to Criticality**
Units	24 Hour Clock	mmHg	%	mmHg	mmHg	mmHg per minute	minutes
Calculations	From Data	From Data	From Data	$D = B \times C/100$	$E = \text{Current D} - \text{Previous D}$	$F = E/20$	$G = (\text{Abs Value of Critical Value} - D) / F$
	15:00	758	21.57	163.50	N/A	N/A	N/A
	15:20	752.5	21.44	161.34	-2.16	-0.11	421.27
	15:40	747.5	21.50	160.71	-0.63	-0.03	1,523.67
	16:00	742.5	21.36				
	16:20	735	21.14				
	16:40	729	20.94				
	17:00	725	20.88				
	17:20						
	17:40						
	18:00						
	18:20						
	18:40						
	19:00						
	19:20						
	19:40						

* Graph this column.

**Critical Value for O2 is 115mmHg. Note: No calculations for Column G are necessary if the trend is not in the direction of criticality. That is, if the rate of change from Column F is a positive number, then no calculations are necessary.

Homework: For Teacher Training, please try to complete the chart below before training day. Trust us, this will help you immensely to understand the material better. Instructions are on the pages that follow.

**Life Support Team Data Tracking Table
Carbon Dioxide**

Column	A	B	C	D	E	F	G
Table Headings	UTC	Total Atmospheric Pressure	CO2 Content	CO2 Partial Pressure*	Change in CO2	Rate of Change	Time to Criticality**
Units	24 Hour Clock	mmHg	%	mmHg	mmHg	mmHg per minute	minutes
Calculations	From Data	From Data	From Data	$D = B \times C/100$	$E = \text{Current D} - \text{Previous D}$	$F = E/20$	$G = (\text{Abs Value of Critical Value} - D) / F$
	15:00	758	0.086	0.6519	N/A	N/A	N/A
	15:20	752.5	0.091	0.6848	0.0329	0.0016	47.0000
	15:40	747.5	0.099	0.7400	0.0552	0.0028	7.1429
	16:00	742.5	0.104				
	16:20	735	0.096				
	16:40	729	0.098				
	17:00	725	0.104				
	17:20						
	17:40						
	18:00						
	18:20						
	18:40						
	19:00						
	19:20						
	19:40						

* Graph this column.

**Critical Value for CO2 is 0.76mmHg. Note: No calculations for Column G are necessary if the trend is not in the direction of criticality. That is, if CO2 is below 0.76 and the Rate of Change is negative then Time to Criticality does not apply. If CO2 is above 0.76 and the Rate of Change is positive then Time to Criticality does not apply.