Name (PRINT):	Date submitted:
Affiliation:	Rating: [] Complete [] Incomplete

their designee after this packet has been approved as complete.

Reminder: You must schedule to take the class post-test with your assigned hospital EMS Coordinator/educator or The answers are found in the January 2012 class handout, independent study materials and/or the SOPs. 1. All respiratory problems can be categorized as impacting one of three things. List them. It's our job to figure out what's wrong to determine appropriate care. 2. What are the purposes of conducting a physical assessment? List at least two. 3. Why does a patient with ventilatory impairment or respiratory distress often assume an upright or sitting position? What should EMS inspect specifically about the AIRWAY during the Primary Assessment? 4. 5. What audible sounds indicating airway or ventilatory impairment can be heard w/o a stethoscope when inspecting the airway? List 2 of 8 6. What should be the first thing to assess about breathing during the Primary Assessment? 7. What 3 thoracic injuries present an immediate life-threat and must be found & resuscitated during the "B" (Breathing) phase of the Primary Assessment?

	If a patient presents with asymmetric chest expansion (hyperinflation of one side) and jugular vein distension, what two things should EMS assess next to differentiate the life threat?
	If a pt presents with paradoxical chest wall motion, severe pleuritic chest pain, dyspnea, crepitus, shallow, rapid respirations, cleabilateral breath sounds yet $SpO_2 < 90$ despite O_2 , administration, what should be suspected?
	What O ₂ device should be applied to this patient to provide non-invasive pressure support?
	Why does an open pneumothorax pose an immediate life threat?
	What is the assessment finding that suggests airway resistance or increased work of breathing?
	What injury should be suspected if a pt breathes using only their diaphragm and not the chest wall?
	Why does a patient with COPD breathe out passed pursed lips?
	What should be suspected if a patient presents with a new onset voice change or stuttering?
	Why does gastric distension with air pose a ventilation problem?
	What should be anticipated in ps who are obese with respect to the primary assessment/care? Work of breathing:
	Intensity of breath sounds:
	SpO ₂ monitoring (results and type of sensor to use):
F	Recommended O ₂ delivery device:
	Capnography numeric reading:
	What general information is obtained by assessing skin color, temp & moisture?

.	What changes the skin from a normal to a dusky color when a patient is severely hypoxic?				
	Under what circumstances is skin color an unreliable clinical finding?				
•	List 2 subjective (non-numeric) S&S of hypoxia				
	What does the pulse oximetry monitor measure?				
	 A. Adequacy of ventilation B. Level of CO₂ in the blood C. Amount of O₂ dissolved in plasma D. % of hemoglobin bound with a gas 				
	If the SpO ₂ is 90%, the pO ₂ is: Why is a pt at risk if the PaO ₂ drops below this?				
	Does the pulse ox monitor measure the oxygenation status of tissues and organ cells? Yes No If a patient is cold, tremoring, vasoconstricted or has poor peripheral perfusion, what adjustment should be made to monitoring their oxygenation status?				
	 A. Use a central pulse ox sensor B. Apply the capnography monitor instead C. Assume they are hypoxic and give 100% oxygen D. Put a blanket over the hand with the pulse ox sensor to warm it up 				
	Which of these will influence the amount of O ₂ delivered to cells?				
	 A. Acid-base status B. Body temperature C. The amount of hemoglobin D. All of the above 				
	Which of these will cause the SpO ₂ reading to be an unreliable reflection of the pt's oxygenation status?				
	 A. Severe pain B. CO poisoning C. Pulmonary edema D. Acute myocardial infarction 				
	Match the shape of the capnography waveform that is likely to be seen with each disease process.				
	A. Square or rectangular plateau B. Shark fin				
	Respiratory condition with delayed exhalation like asthma or COPD Heart failure				
	What EtCO ₂ numeric reading indicates hypoventilation with impending ventilatory failure?				

Wha	What should be the pulse ox target reading for a patient with return of spontaneous circulation (ROS					
following cardiac arrest?						
Wha	What should be the pulse ox target reading for a patient with COPD?					
Whic	Which of these is NOT a possible complication of using CPAP?					
A. B. C. D.	Collapse of the alveoli Decrease in blood pressure Gastric distension and vomiting Patient anxiety and claustrophobia					
Why	is a 12 L ECG indicated if a patient pre	sents with	shortness of breath?			
\ \			and maring (Lint 2)			
vvna	t types of conditions can present with pl	euritic che	est pain? (List 2)			
vviiy	should EMS listen for an S3 heart sour	nd if a pation	ent has frothy sputum?			
Matc A. B. C.	h the class or type to each of these of Ace inhibitors Angiotensin 2 blockers Beta blockers Treat high cholesterol metoprolol (Lopressor) rivaroxaban (Xarelto)		Calcium channel blocker Diuretic Anticoagulant Vasodilators lisinopril (Prinivil) amlodipine (Norvasc)			
Mato A. B. C. D.	Ace inhibitors Angiotensin 2 blockers Beta blockers Treat high cholesterol metoprolol (Lopressor) rivaroxaban (Xarelto) rosuvastatin (Crestor)	drugs E. F. G. H.	Calcium channel blocker Diuretic Anticoagulant Vasodilators lisinopril (Prinivil)			
Mato A. B. C. D. Mato A. B.	h the class or type to each of these of Ace inhibitors Angiotensin 2 blockers Beta blockers Treat high cholesterol metoprolol (Lopressor) rivaroxaban (Xarelto)	drugs E. F. G. H.	Calcium channel blocker Diuretic Anticoagulant Vasodilators lisinopril (Prinivil) amlodipine (Norvasc)			
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Mato A. B. C. D. Mato A. B. C.	Ace inhibitors Angiotensin 2 blockers Beta blockers Treat high cholesterol metoprolol (Lopressor) rivaroxaban (Xarelto) rosuvastatin (Crestor) The class or type to each of these of the second acting beta agonist Long acting beta 2 agonist Anticholinergic Singulair (montelukast) Azmaort (triamcinolone) Atrovent (ipratropium)	drugs E. F. G. H. drugs D. E. F.	Calcium channel blocker Diuretic Anticoagulant Vasodilators lisinopril (Prinivil) amlodipine (Norvasc) olmesartan (Benicar) MAST cell inhibitor Leukotriene modifier Steroid Nasalcrom (cromolyn) Serevent (salmeterol)			

What percussion note is elicited over normal aerated lung tissue?					
What percussion note is elicited over a pneumothorax?					
What percussion note is elicited over a hemothorax?					
Technique of breath sound assessment					
Where should the stethoscope be placed? <u>Directly on skin / over one layer of clothing</u> (circle one)					
Patient position if hemodynamically stable:					
Patient position if unstable or AMS:					
Ask the patient to breathe through their <u>mouth / nose</u> (circle one)					
How many lung lobes must be assessed?					
Where should one start to listen?					
Where should one start on the anterior chest?					
 A. Under each arm B. Just below the clavicles C. Just above the clavicles D. Just above the nipple lines 					
When listening to normal vesicular lung sounds, <u>inspiration / expiration (circle one)</u> should sound louder and 2 times longer with a <u>high / low</u> (circle one) pitch.					
Apply the concept of "sound matching":					
What will cause transmission of lungs sounds to be enhanced producing louder than normal sounds with higher frequencies? <u>Consolidation / air or fluid in the pleural space</u> (circle one)					
■ What will cause reflection of sound away from the chest wall causing breath sounds to be diminished o absent? Consolidation / air or fluid in the pleural space (circle one)					
If bronchial breath sounds are heard over the periphery, what should one suspect?					
Fill in the tables below:					

Differential	Crackles	Wheeze
Physiologic cause		
Description of what they sound like		
Timing (inspiration or expiration)		
Conditions that present with that sound generalized over all lung fields		
Conditions that present with that sound localized		

Different	tial	Pleural friction rub	Stridor	
Physiolo	ogic cause			
Descript sound like	tion of what they ke			
Timing (inspiration or expiration)				
Conditions that present with that sound generalized over all lung fields			NA – don't need a stethoscope Heard with:	
Conditions that present with that sound localized				
	How can EMS tell the difference between wheezes caused by asthma or COPD and those caused by hear failure? List at least three differentiating assessments.			