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REVIEW SHEET

EXERCISE

37A

Respiratory System Physiology

Mechanics of Respiration

1. For each of the following cases, check the column appropriate to your observations on the operation of the model lung.

Change	Diaphragm pushed up		Diaphragm pulled down	
	Increased	Decreased	Increased	Decreased
In internal volume of the bell jar (thoracic cage)		✓	✓	
In internal pressure	✓			✓
In the size of the balloons (lungs)		✓	✓	
In direction of air flow	Into lungs	Out of lungs ✓	Into lungs ✓	Out of lungs

2. Base your answers to the following on your observations in question 1.

Under what internal conditions does air tend to flow into the lungs? ↑ thoracic volume, and ↓ pressure.

Under what internal conditions does air tend to flow out of the lungs? Explain why this is so. ↓ thoracic volume, ↑ pressure, gases move in the direction that tends to equalize pressure inside and outside the "container."

3. Activation of the diaphragm and the external intercostal muscles begins the inspiratory process. What effect does contraction of these muscles have on thoracic volume, and how is this accomplished? ↑ thoracic volume. The diaphragm moves inferiorly, increasing the superior/inferior dimension; the ribs swing up and out, increasing the lateral and anterior/posterior dimensions.

4. What was the approximate increase in diameter of chest circumference during a quiet inspiration? (student data) inches
During forced inspiration? (student data) inches

Exercise 37a Respiratory System Physiology

Padhraic Smyth



Exercise 37a Respiratory System Physiology:

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