

Handout

**Part 1 – Research**

What disease are you researching? \_\_\_\_\_

What is the cause of that disease?

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What part of the lung is affected by this disease?

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What other systems might be impacted by this disease? How?

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What are some possible treatments for this disease?

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**Part 2 – Modeling**

1. Make your normal model lung.
2. Roll up a sheet of paper so it fits inside the branches of the Y-connector. Tape it in shape and cut to size. Insert the paper into the Y-connector and re-assemble your lungs.

Is it easier or harder to inflate and deflate the lungs?      easier                  harder

Which part of the lung is impacted by the disease we are modeling?

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Is this disease an airway, tissue, or circulation condition?    airway                  tissue                  circulation

Is this disease restrictive, obstructive, ventilation, or perfusion?

restrictive                  obstructive                  ventilation                  perfusion

3. Replace your latex balloons with water balloons.

Is it easier or harder to inflate and deflate the lungs?      easier                  harder

Which part of the lung is impacted by the disease we are modeling?

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Is this disease an airway, tissue, or circulation condition?    airway                  tissue                  circulation

Is this disease restrictive, obstructive, ventilation, or perfusion?

restrictive                  obstructive                  ventilation                  perfusion