Graham’s law with stoichiometry Due next class Name: \_\_\_\_\_\_\_\_\_\_\_\_

1. Solid aluminum reacts with a solution copper (II) chloride to produce aluminum chloride and solid copper.
   1. Write the balanced reaction.
   2. What mass of copper is produced from 35.81 g of aluminum?
   3. How many grams of aluminum are required to react with 415 g of copper (II) chloride?
2. Determine the relative rate of diffusion for Argon and chlorine gas.
3. An air sample contains nitrogen and oxygen gasses. If the nitrogen gas has an average speed of 1.50 m/s at a given temperature and pressure. What is average speed of the oxygen molecules?

Stoichiometry and Graham’s law Due next class Name: \_\_\_\_\_\_\_\_\_\_\_\_

1. Solid aluminum reacts with a solution copper (II) chloride to produce aluminum chloride and solid copper.
   1. Write the balanced reaction.
   2. What mass of copper is produced from 35.81 g of aluminum?
   3. How many grams of aluminum are required to react with 415 g of copper (II) chloride?
2. Determine the relative rate of diffusion for Argon and chlorine gas.
3. An air sample contains nitrogen and oxygen gasses. If the nitrogen gas has an average speed of 1.50 m/s at a given temperature and pressure. What is average speed of the oxygen molecules?