

45

On a hot day, a student places a glass of cold lemonade on a table outdoors. After a few minutes, water droplets have formed on the outside of the glass.

- a. Is energy absorbed or released by the cold lemonade? Explain your answer.
- b. Compare average kinetic energy for the air molecules and lemonade molecules when the student first places the lemonade outdoors. Explain your answer.
- c. Explain how **and** why the water droplets form on the outside of the glass.