Here are the 5 Long Answer Questions based strictly on the provided chapter text:

- 1. Describe the three characteristics of particles of matter as demonstrated in the activities mentioned in the chapter (activities 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8).
- 2. Explain the concept of diffusion with reference to the activities performed in the chapter. How does the rate of diffusion change with temperature?
- 3. Compare the properties of solids, liquids, and gases based on their shape, volume, and compressibility. Use examples from the chapter to support your answer.
- 4. What evidence from the chapter activities suggests that particles of matter have space between them? How does this explain phenomena like making tea or lemonade?
- 5. Using the human chain activities (activities 1.6) and the substance activities (activities 1.7 and 1.8), explain the idea that the force of attraction between particles of matter varies.