

### Activate 1

Chemistry 1.6 Diffusion.

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#### **Step 1. Complete the sentences.**

1. The random \_\_\_\_\_ and \_\_\_\_\_ of particles is called Diffusion.
2. What factors affect Diffusion?
  - \_\_\_\_\_
  - Particle \_\_\_\_\_
  - The \_\_\_\_\_ of the diffusing substance.
3. At \_\_\_\_\_ temperatures, particles are move more \_\_\_\_\_.
4. Big, \_\_\_\_\_ particles diffuse more \_\_\_\_\_ than small, \_\_\_\_\_ particles.
5. Diffusion happens \_\_\_\_\_ in gases because the particles are far apart.
6. Diffusion is \_\_\_\_\_ in liquids because the particles are \_\_\_\_\_.
7. Diffusion does not happen in \_\_\_\_\_ because the particles cannot \_\_\_\_\_.

**Step 2.** Video activity. – Pair work. Explain to your partner what you saw in the video using the new vocabulary from today's lesson about Diffusion. Switch the roles.

**Step 3.** Listen to Johnny's explanation of the **Ink Diffusion Video** and then answer the questions below.

8. Why does the ink diffuse slowly in cold water?

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9. Why does the ink diffuse quickly in hot water?

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Date: \_\_\_\_\_ ID: \_\_\_\_\_

Name: \_\_\_\_\_