

Physics - Key Stage 3 Matter

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# Independent Practise

1. Define Brownian motion.
2. Define diffusion.
3. Explain why diffusion is passive using Brownian motion.

**Diffusion is passive because . . .**



## Fill in the gaps:

Increasing the temperature \_\_\_\_\_ the rate of diffusion because the particles have more \_\_\_\_\_ energy.



# Independent Practise

Someone has just thrown a stink bomb through the classroom door.

1. Describe how the gas diffuses around the room

**In a gas the particles . . . over time the particles will . . .**

2. Explain why students at the front smell it first

**The students at the front will smell it first because . . .**

3. Explain why it smells strongest near the door

**The smell will be strongest near the door because . . .**

4. Would it spread faster or slower on a hot day? Justify your answer

**It would spread faster/slower on a hot day, this is because the particles are . . .**

