

Rock, Paper, Scissors Student e-Notebook



Activity 2.2 Tiny particles

Brownian motion

Follo	ow t	he	instr	uction	ns ir	n the	Stude	nt	Guide	to	observe	the	tiny	fat	partic	les	in
milk	und	der	the i	micro	sco	pe.											

IIIIIK	under the inicroscope.
1.	You will notice both large and small droplets. Do you observe any difference between the jiggling motion of the large and small droplets?
2.	Why do you think there is a difference?
3.	How do your observations support the idea that water is made of tiny particles in constant motion?
you	may also remember the phenomenon of diffusion from Year 7. How could explain how a smell spreads through the room, or some food dye spreads ugh a glass of water, using the particle model?



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Notebook: Brownian motion

1.	Describe the motion of the yellow particles in the simulation.
2.	In what way is the motion of the small particles and the large particle similar?
3.	In what way is the motion of the small and large particles different?
J.	in what way is the motion of the small and large particles different:
4.	Why do you think that we never see evidence of Brownian motion in large scale systems, without using a microscope?