

INVESTIGATING DIFFUSION

AIMS:

1. USE THE PARTICLE MODEL TO EXPLAIN DIFFUSION.
2. RECORD AND PRESENT OBSERVATIONS IN AN APPROPRIATE WAY (WORKING SCIENTIFICALLY).
3. MAKE A CONCLUSION FROM YOUR EXPERIMENT (WORKING SCIENTIFICALLY).



EQUIPMENT:

1. BEAKER
2. SKITTLES
3. PETRI DISH
4. FILTER PAPER
5. STOP CLOCK
6. WATER

METHOD:

1. PLACE THE PETRI DISH ON A PIECE OF FILTER PAPER.
2. PLACE THREE SKITTLES INTO THE PETRI DISH AND EVENLY SEPARATE THEM SO THEY ARE THE SAME DISTANCE APART FROM EACH OTHER AND THE SIDES.
3. USING A BEAKER SLOWLY POUR WATER INTO THE PETRI DISH TO COMPLETELY FILL IT. BE CAREFUL NOT TO OVER FILL THE DISH.
4. ONCE YOU HAVE PUT THE WATER INTO THE PETRI DISH START TIMING.
5. OBSERVE WHAT HAPPENS AND RECORD YOUR OBSERVATIONS.

WOW!

OBSERVATIONS:

QUESTIONS:

1. EXPLAIN THE PROCESS OF DIFFUSION IN TERMS OF PARTICLES.
2. EXPLAIN WHY YOU GOT THE PATTERN YOU DID.
3. HOW CAN THE SPEED OF DIFFUSION BE INCREASED?
4. WHAT PATTERN DO YOU THINK YOU WILL GET IF YOU TRIED SIX SKITTLES? DRAW YOUR THOUGHT AND THEN TRY IT.
5. NAME AN EVERY DAY EXAMPLE OF DIFFUSION.

