

Plan and run the fair test

materials

What you need: sand–salt–water mixture in a clear jar · clear plastic cups or beakers · sieve · funnel · filter paper · jug of clean water for rinsing and top-ups · tablespoon or small scoop · timer or stopwatch · class waste bucket for sandy leftover mixture · cloths or paper towels for spills

Words to use

Fair test · Mixture · Observation · Inference

Our question

Which separation method leaves the least sand in the water?

The two methods our group is comparing (sieving, filtering or settling)

I predict...because...

Sort these into Change, Measure and Keep the same

the separation method · how much sand is left · amount of mixture · time allowed · the container

Change – the ONE thing we change

Measure – the ONE thing we measure

Keep the same – to make it fair

Cloudiness beside the baseline jar, 1 (clear) to 5 (as cloudy as the baseline)

Method	Trial 1	Trial 2

What we SAW (the scores)

What we THINK it means (keep this apart from what we saw)

What would have made a group's test unfair?