Brentside Knowledge Organiser - Science

Year: 5	Topic: Properties of materials– reversible or irreversible	National curriculum: Properties and changes of Materials

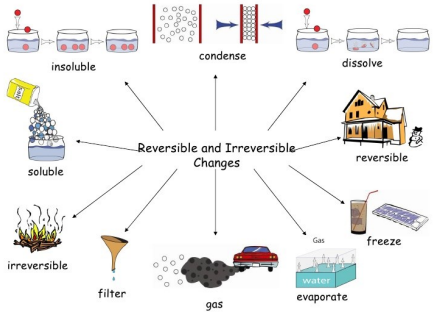
What I should already know:

I can recognize the different use of materials.
I can perform experiment.
I can recognize the origin of materials and why some objects cannot be made from other materials.
I can change the shape of solid objects.
I can classify objects based on the material they are made of.
I can group materials by state (solid, liquid, gas).
I can describe what happenes to water as it is heated and cooled.
I can measure temperature in degrees Celsius.
I can describe the water cycle.

What I should know at the end of the topic:

	I can explain how some materials dissolve to form a solution.
	I can explain how to separate materials in a solution.
	I can decide how best to separate mixtures.
	I can tell why some state changes are reversible, and some state changes aren't.
	I can tell. using evidence, why some materials are best suited to different uses
	I can renowned scientists and their inventions.
	I can make predictions about my experiments.
	I can plan different kinds of fair experiments.
	I can present my findings in written or oral form.

Diagrams:



Vocabulary

reversible	That can be changed to its original state
irreversible	That cannot be changed to its original state
experiment	A scientific procedure undertaken to make a discovery, test a hypothesis, or demonstrate a known fact.
invention	Create or design (something that has not existed before); be the originator of.
discovery	Be the first to find or observe (a place, substance, or scientific phenomenon)
forensic	Relating to or denoting the application of scientific methods and techniques to the investigation of crime.
evidence	The available body of facts or information indicating whether a belief or proposition is true or valid
investigate	Carry out a systematic or formal inquiry to discover and examine the facts of
scientific	based on or characterized by the methods and principles of science

Investigate:
Can I be the next CSI investigator?
Compare and group together everyday materials on the basis of their properties.