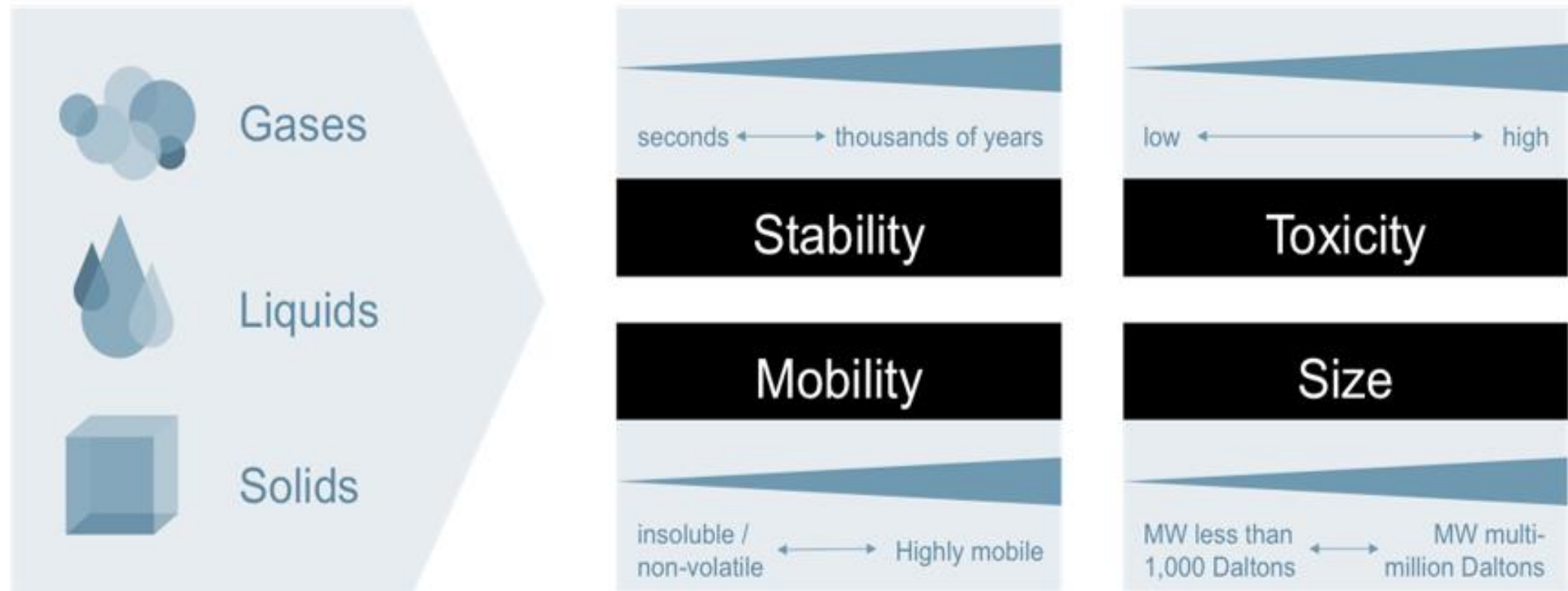


Classes of Chemicals can include many different substances with very different properties

Differences



Example: Hydrocarbons (C-H Substances)

A Big Universe of Very Different Substances

		
SOLID	LIQUID	GAS
Polyethylene	Ethyl Alcohol	Propane
$\text{H}(\text{CH}_2\text{CH}_2)_x\text{H}$	$\text{CH}_3\text{CH}_2\text{OH}$	$\text{CH}_3\text{CH}_2\text{CH}_3$

All have a similar chemical structure with a C-H bond, but we would never group them together and say “they are the same,” because **they are Not the same.**