

The following observations can each be explained by substances changing state. Complete the table by inserting the appropriate terms and descriptions. The first example has been done for you.

OBSERVATION		STATE CHANGE	CAUSE	DESCRIPTION
1	Swimmers cool off quickly when they leave the water.	liquid to gas	latent heat of vapourisation	As water vaporises it absorbs heat from the body thus cooling the skin.
2	A drink containing ice remains at 0 °C until the ice melts.			
3	A scald from steam is more harmful than a burn from hot water.			
4	A refrigerant circulates and cools the inside of a refrigerator.			
5	Water in an electric jug will not increase in temperature beyond 100 °C despite boiling for a long time.			
6	Wet clothes hung on a line dry faster on a warm day than on a cool day.			