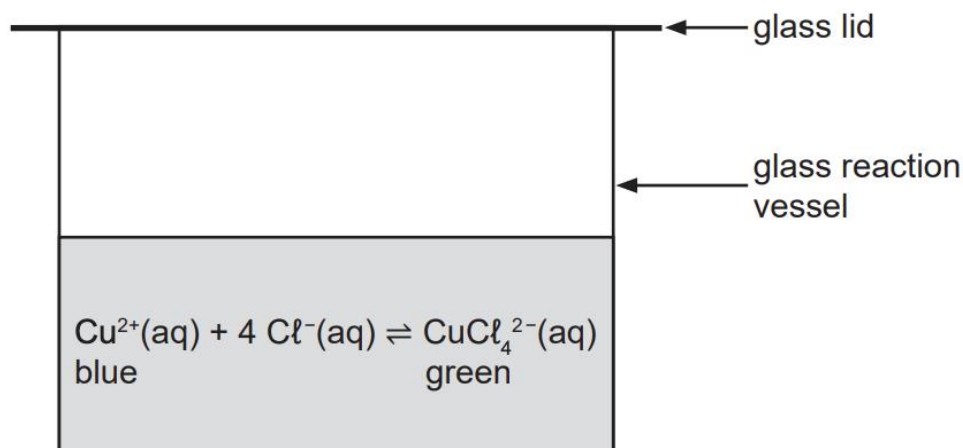


12. A group of Chemistry students observed a demonstration in which solid sodium chloride was added to an aqueous solution of copper(II) chloride in a glass reaction vessel. A tightly-fitting lid was placed on the reaction vessel. The solid sodium chloride was allowed to dissolve and then the entire system was heated and then cooled. This resulted in colour changes. The reaction system is shown below.



The students were asked to decide if the system was open or closed and if the demonstration involved chemical and/or physical processes. Their responses are shown in the following table.

Which student has the correct responses?

	Student	Type of system (open/closed)	Type of process (chemical/physical)
(a)	1	closed	physical
(b)	2	closed	chemical
(c)	3	closed	chemical and physical
(d)	4	open	chemical