

① A word equation shows all of the compounds that take part in the reaction.

② a) Propane, Oxygen

b) Carbon dioxide, Water

c) to show the direction that the reaction occurs

③ a) calcium chloride + sodium sulfate  $\rightarrow$  calcium sulfate  
+  
sodium chloride

b) barium carbonate  $\rightarrow$  barium oxide + carbon dioxide

c) silver nitrate + potassium chloride  $\rightarrow$  silver chloride  
+  
potassium nitrate

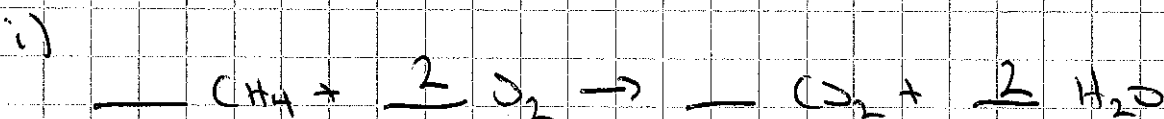
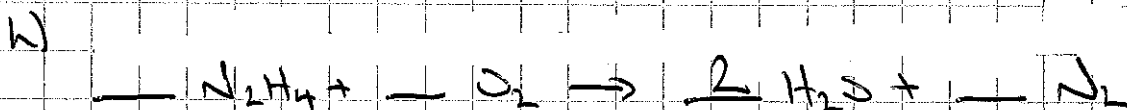
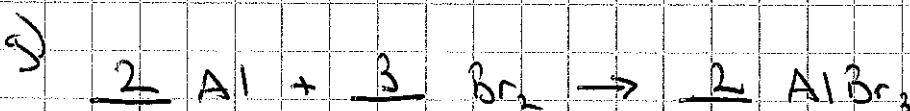
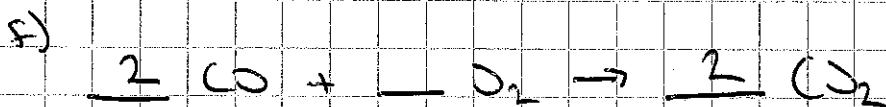
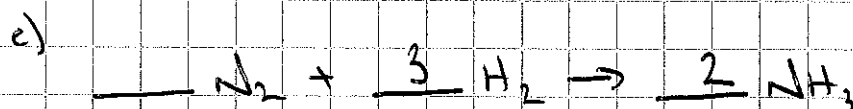
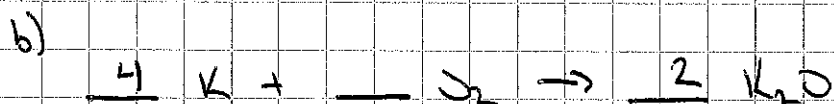
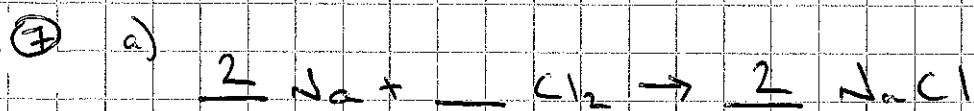
④ a) sugar + oxygen  $\rightarrow$  carbon dioxide + water

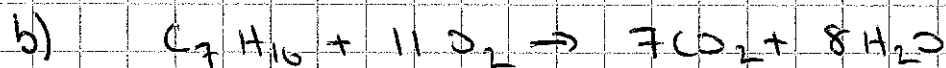
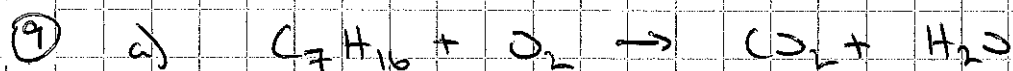
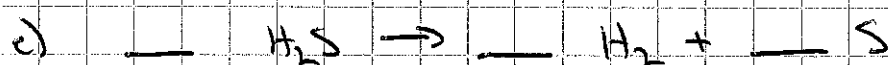
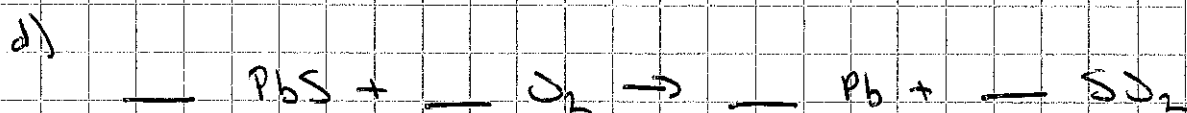
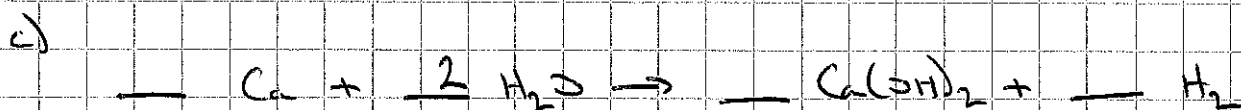
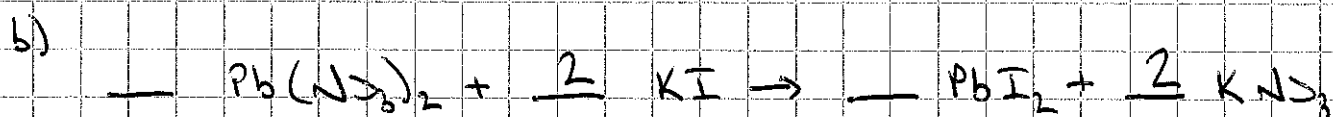
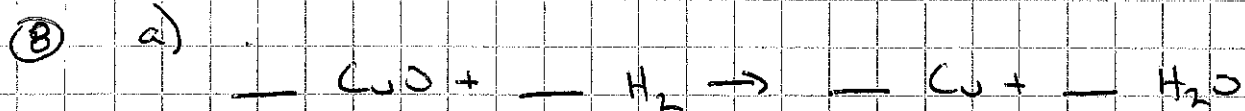
b) calcium bicarbonate  $\rightarrow$  calcium carbonate + water  
+  
carbon dioxide

⑤ bread + peanut butter  $\rightarrow$  p.b. sandwich

⑥ a) 2 nitrogen on left, 1 on right  
2 hydrogen on left, 3 on right

b) you can't change the subscripts, only the coefficients





c) eleven