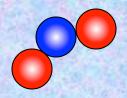
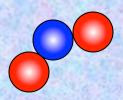
$$NO_2 + CO \longrightarrow NO + CO_2$$



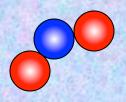


$$NO_2 + CO \longrightarrow NO + CO_2$$



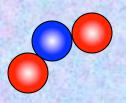


$$NO_2 + CO \longrightarrow NO + CO_2$$



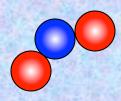


$$NO_2 + CO \longrightarrow NO + CO_2$$



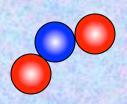


$$NO_2 + CO \longrightarrow NO + CO_2$$



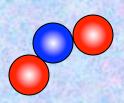


$$NO_2 + CO \longrightarrow NO + CO_2$$



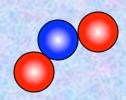


$$NO_2 + CO \longrightarrow NO + CO_2$$





$$NO_2 + CO \longrightarrow NO + CO_2$$

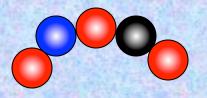




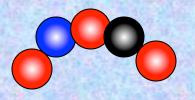
$$NO_2 + CO \longrightarrow NO + CO_2$$



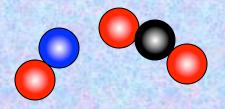
$$NO_2 + CO \longrightarrow NO + CO_2$$



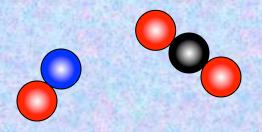
$$NO_2 + CO \longrightarrow NO + CO_2$$



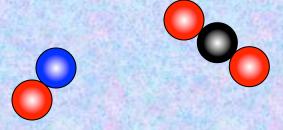
$$NO_2 + CO \longrightarrow NO + CO_2$$



$$NO_2 + CO \longrightarrow NO + CO_2$$

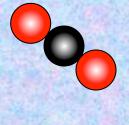


$$NO_2 + CO \longrightarrow NO + CO_2$$



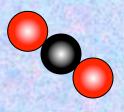
$$NO_2 + CO \longrightarrow NO + CO_2$$



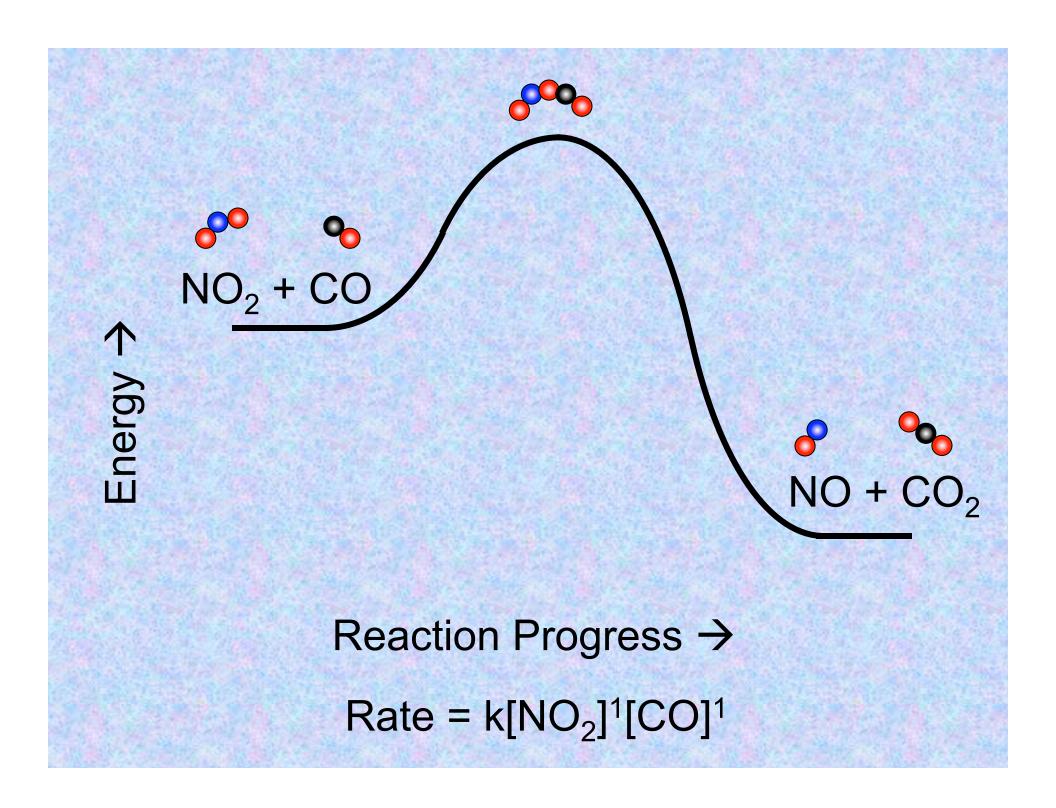


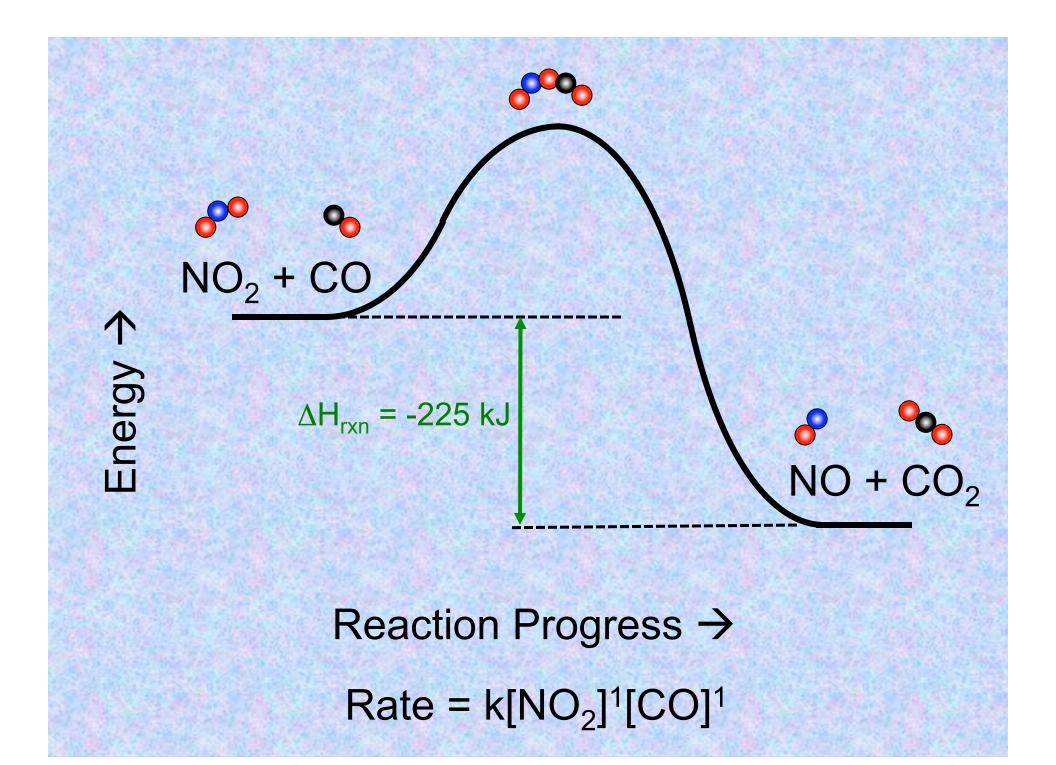
$$NO_2 + CO \longrightarrow NO + CO_2$$

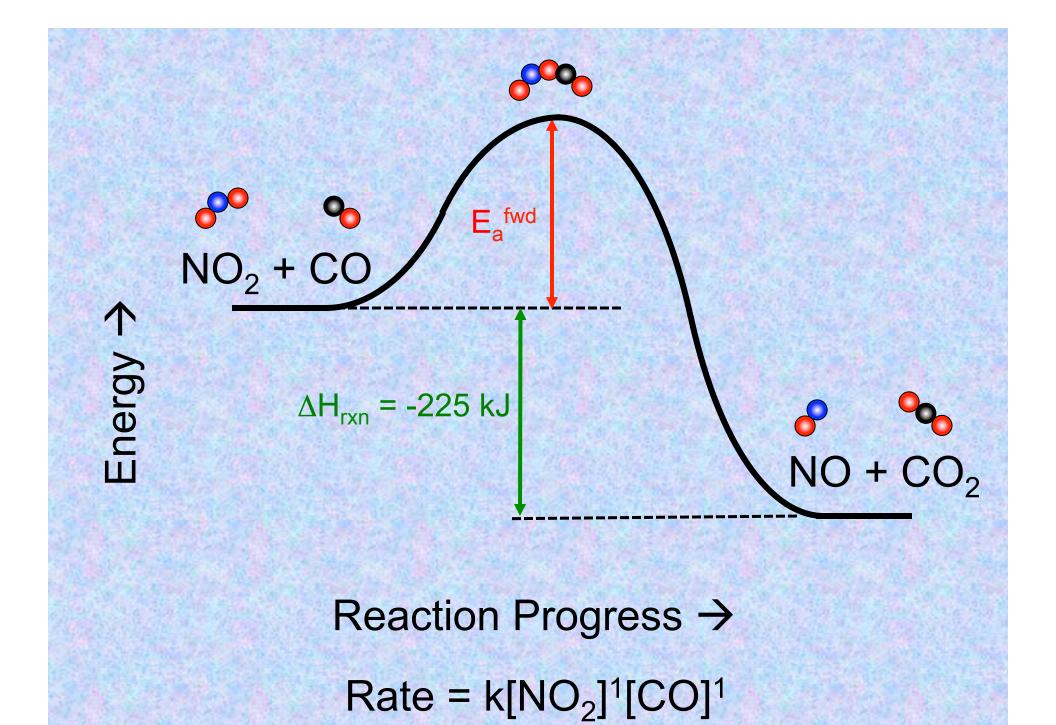


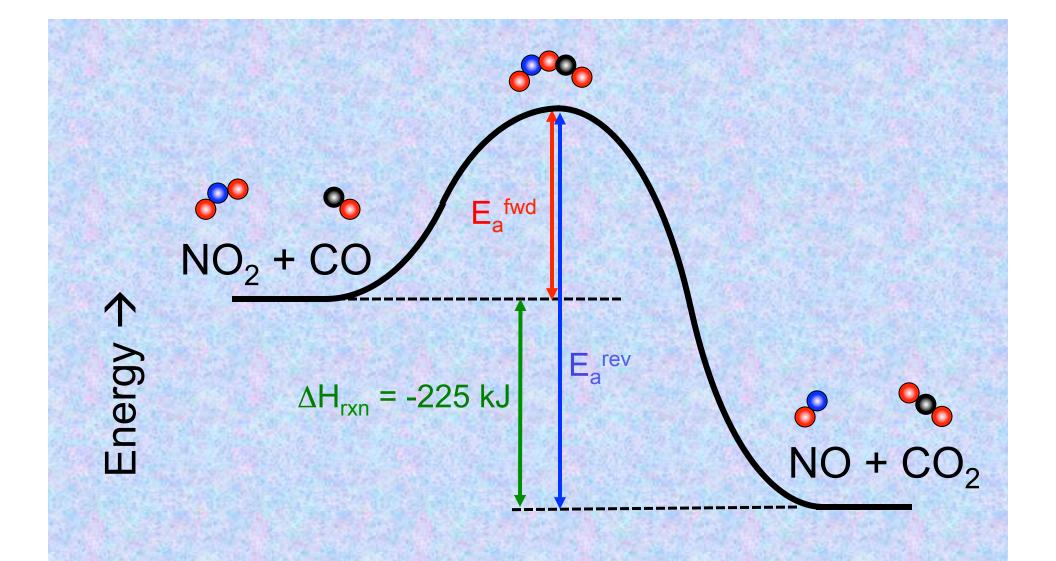


Rate = $k[NO_2]^1[CO]^1$



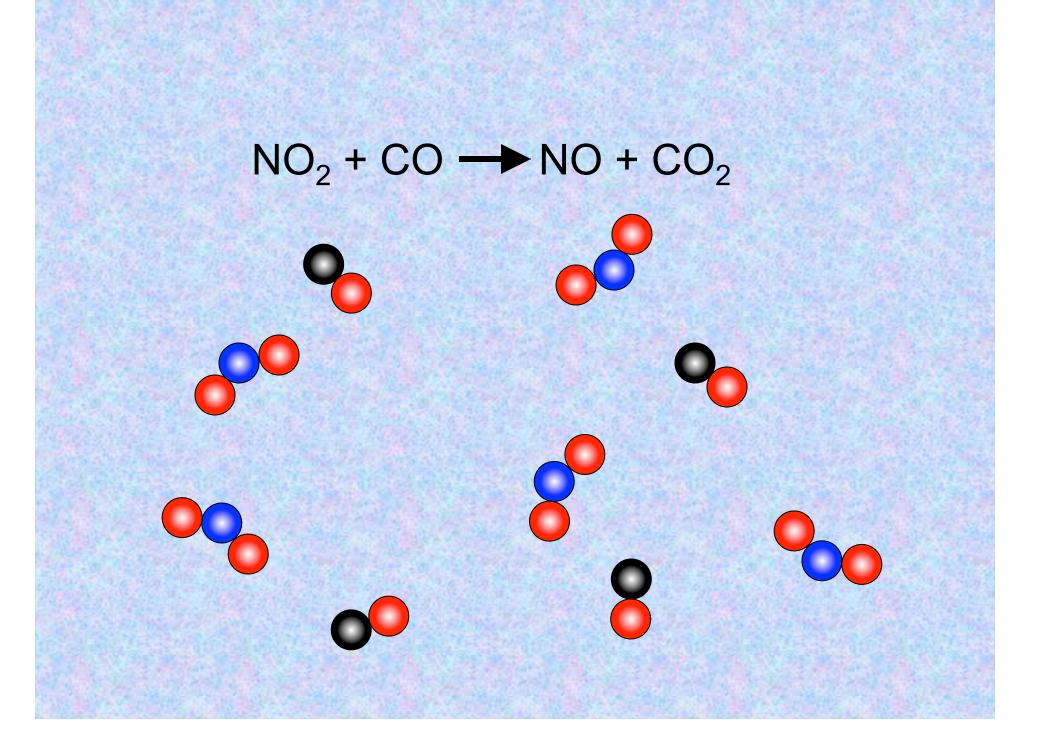


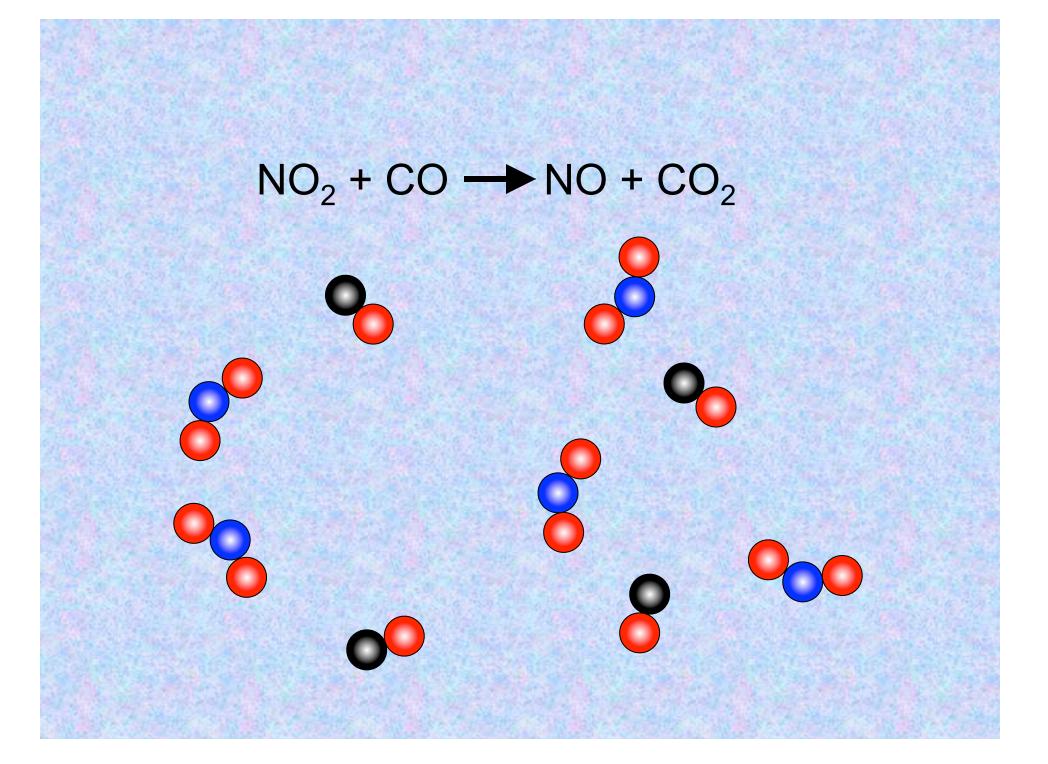


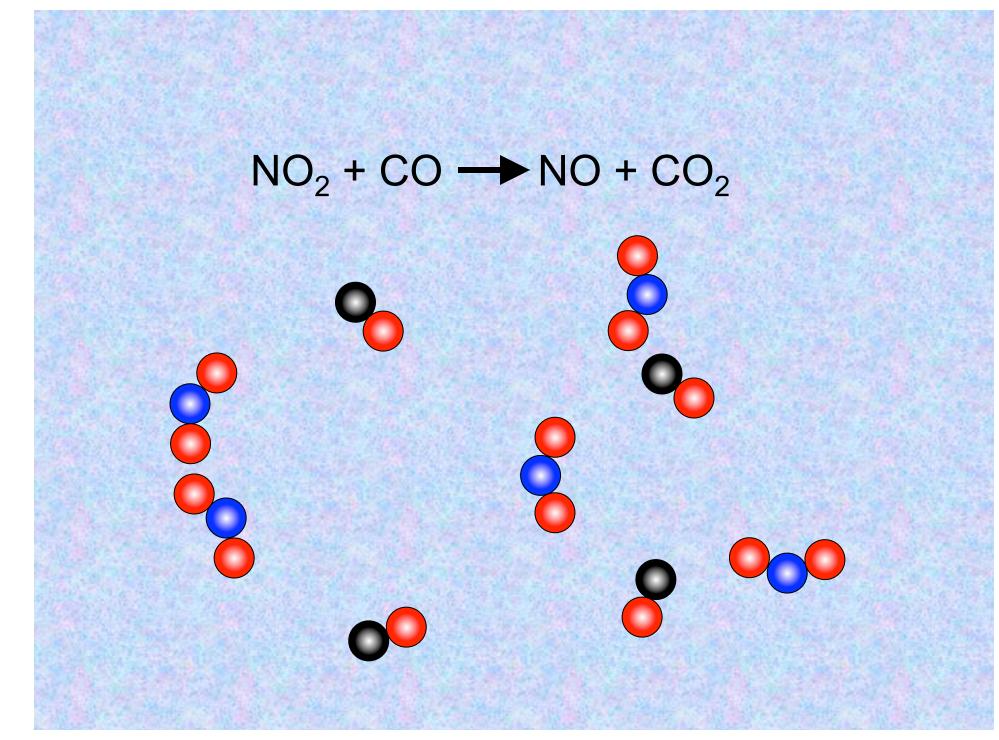


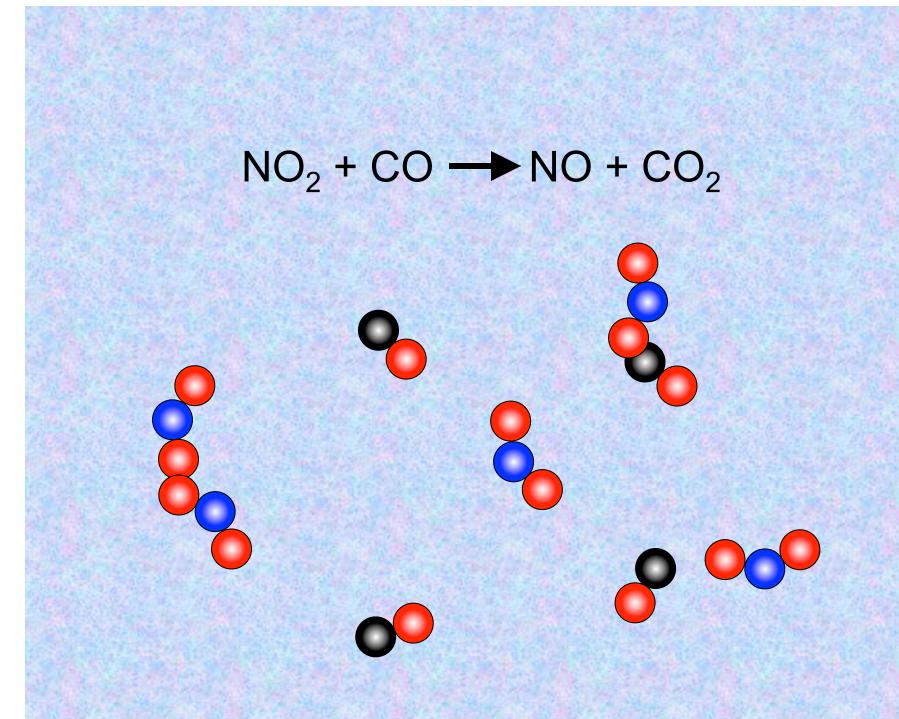
$$NO_2 + CO \rightarrow NO + CO_2 \Delta H_{rxn} = E_a^{fwd} - E_a^{rev}$$

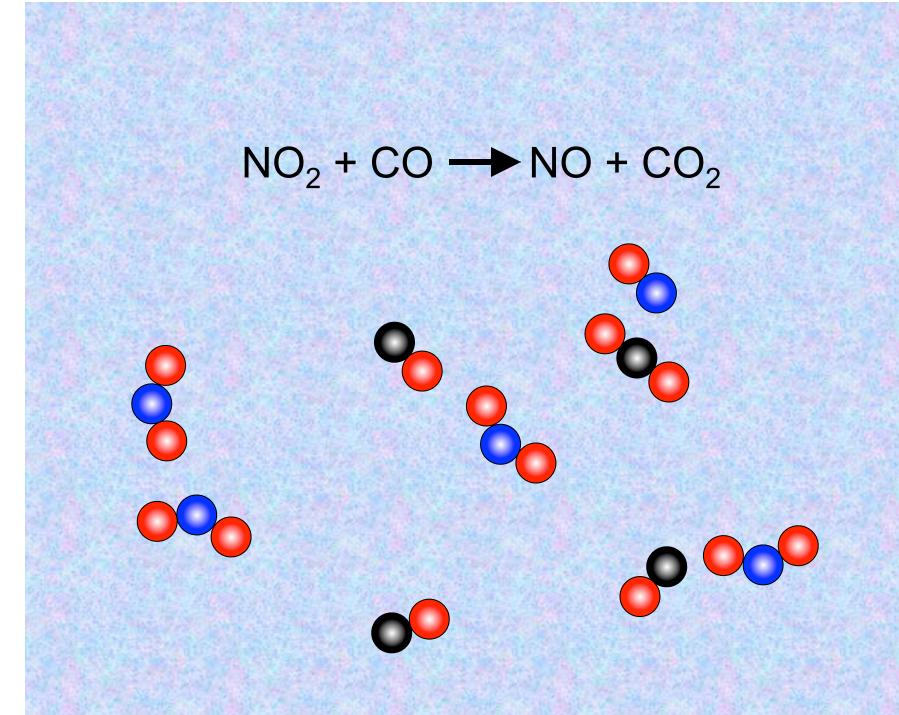
$$Rate = k[NO_2]^1[CO]^1$$

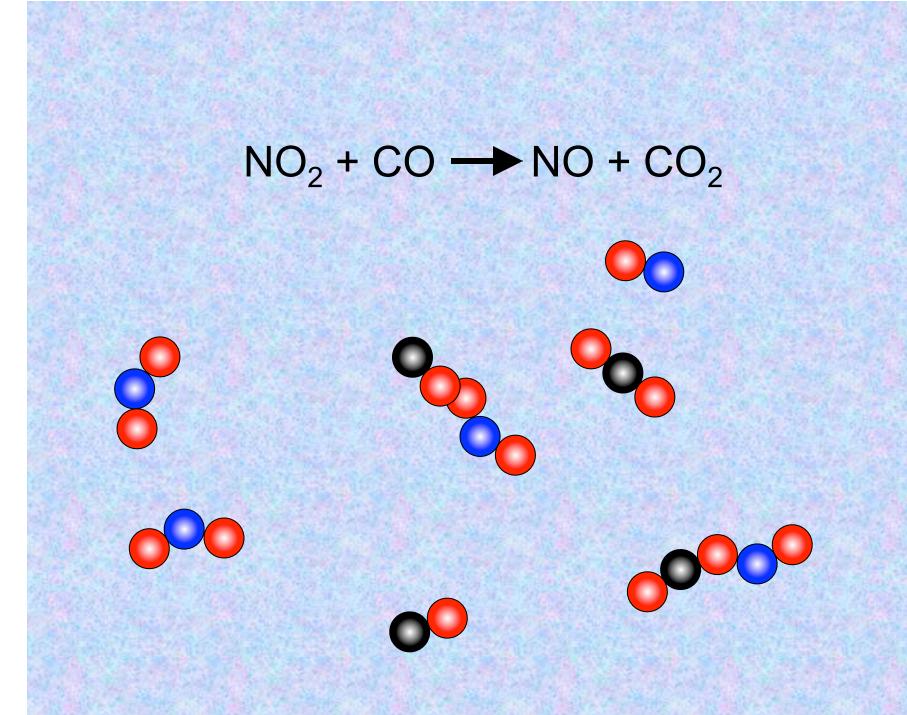


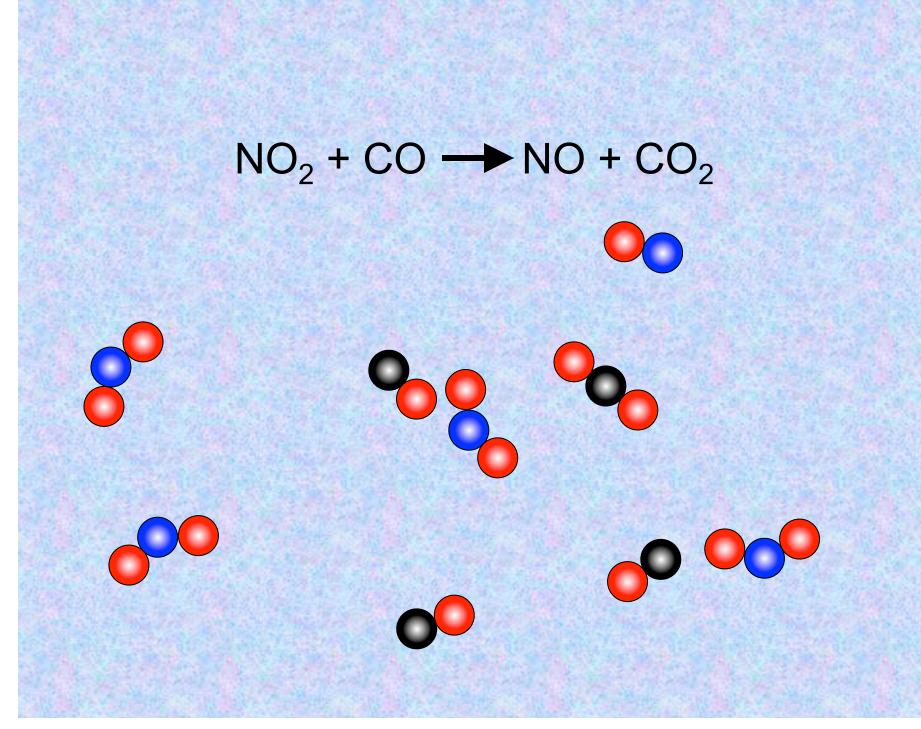


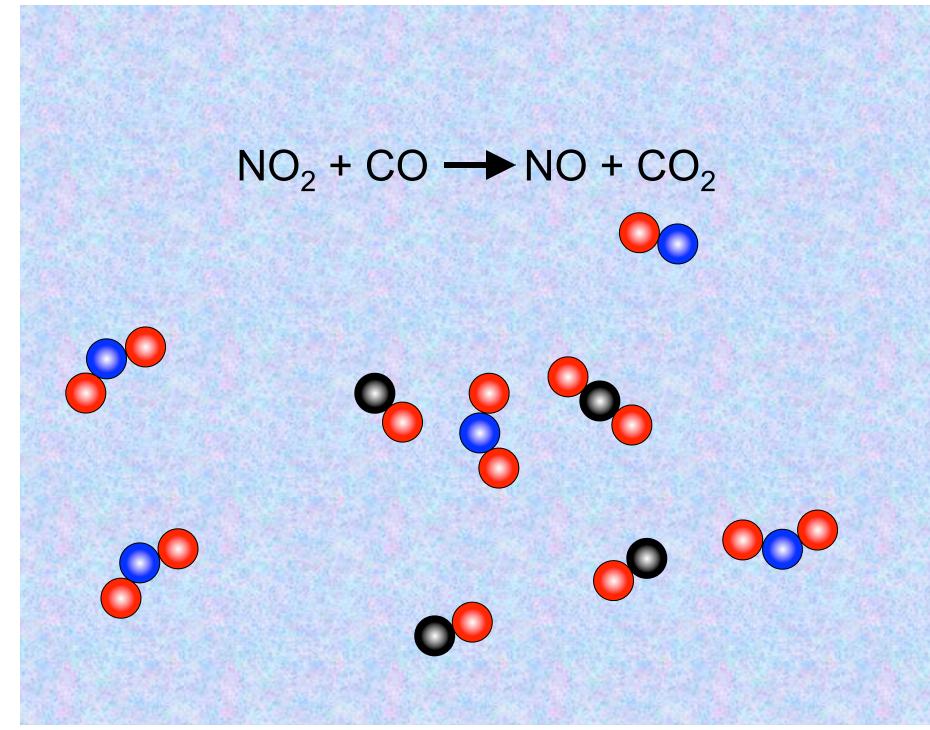












$$NO_2 + CO \longrightarrow NO + CO_2$$

- 1 How many effective collisions were observed?
- 2 How many collisions were ineffective due to orientation?
- 3 How many collisions were ineffective due to inefficient energy?
- 4 How many collisions were nonproductive due to collisions between like molecules?