

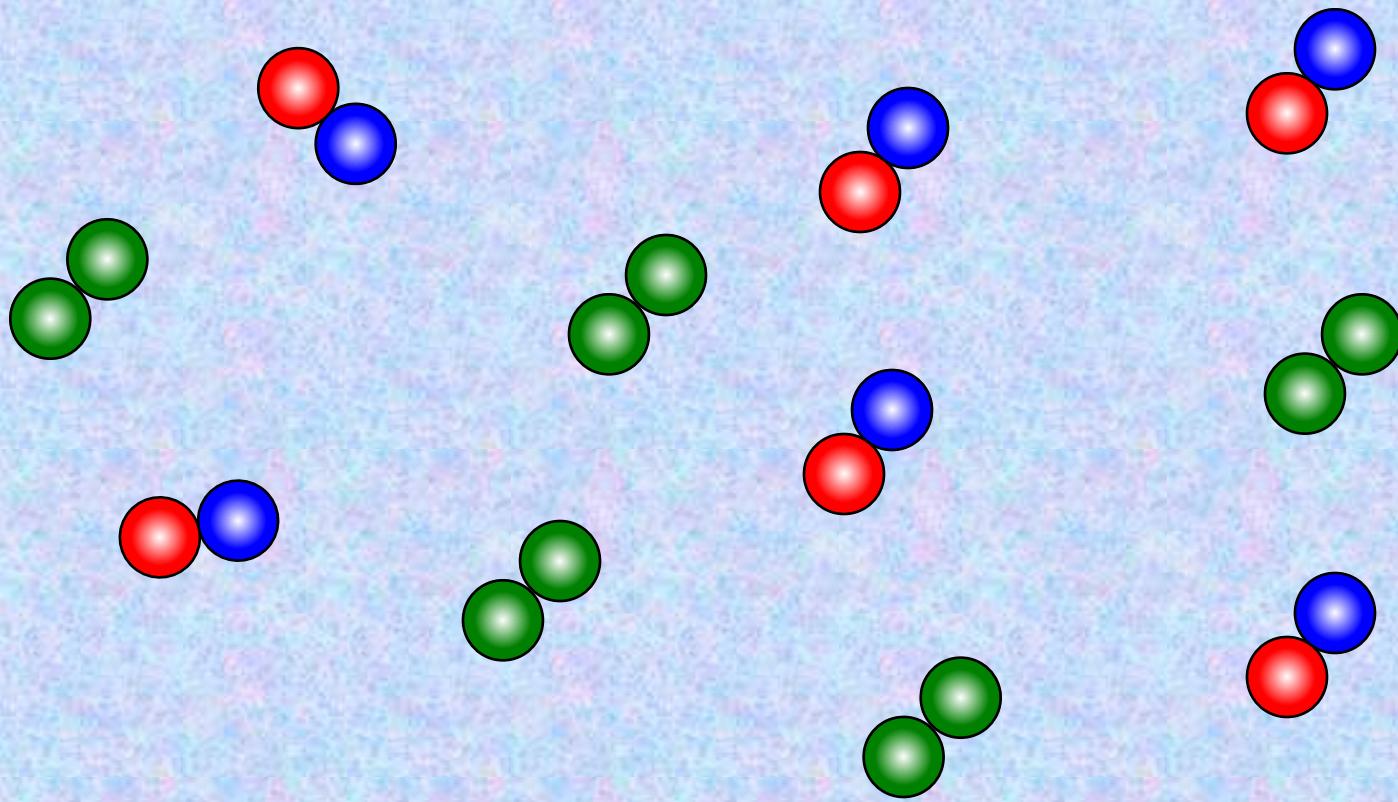
# Project 7.

Step 1.  $\text{NO} + \text{Cl}_2 \rightarrow \text{NOCl}_2$  (slow)

Step 2.  $\text{NOCl}_2 + \text{NO} \rightarrow 2 \text{NOCl}$  (fast)

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Overall:  $2 \text{NO} + \text{Cl}_2 \rightarrow 2 \text{NOCl} \Delta H = -157 \text{ kJ}$



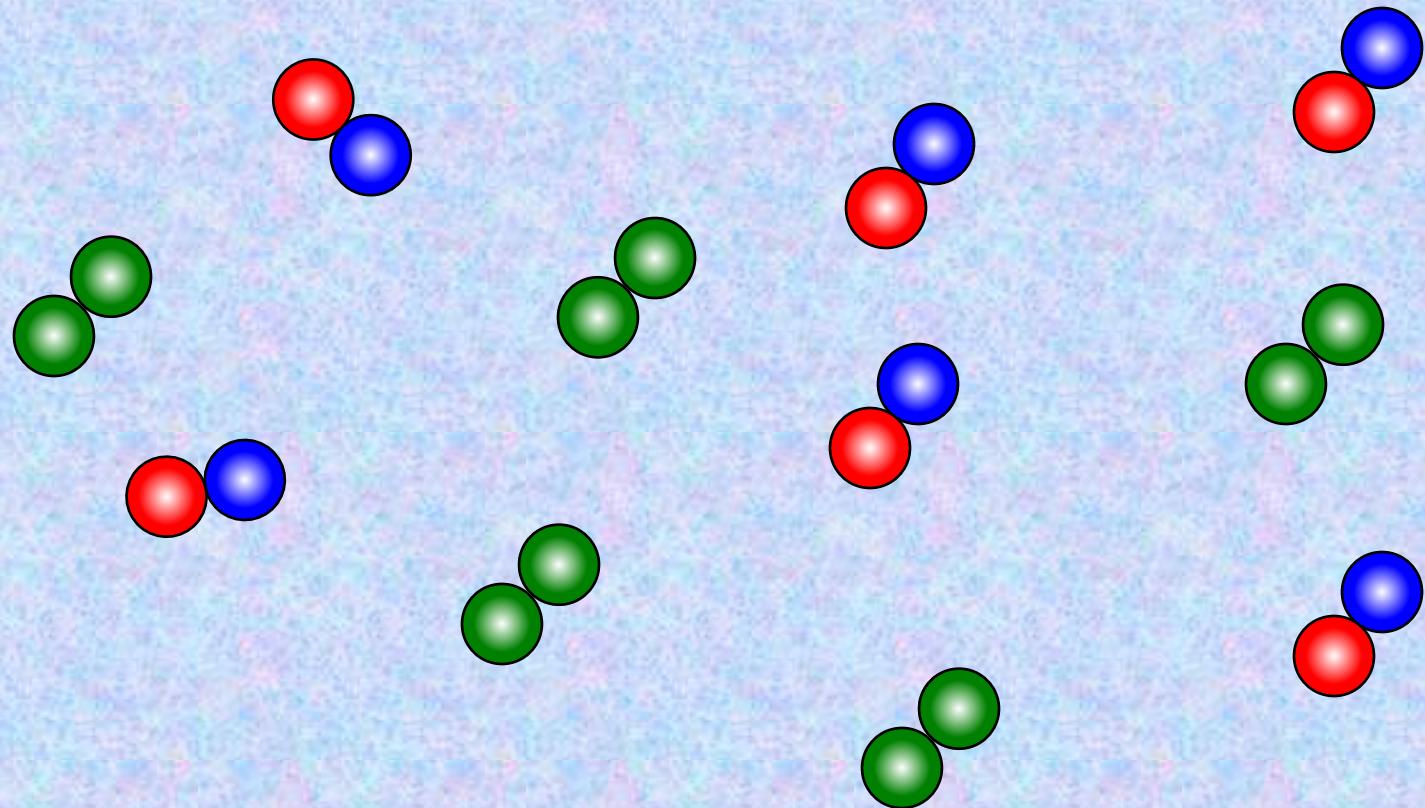
# Project 7.

Step 1.  $\text{NO} + \text{Cl}_2 \rightarrow \text{NOCl}_2$  (slow)

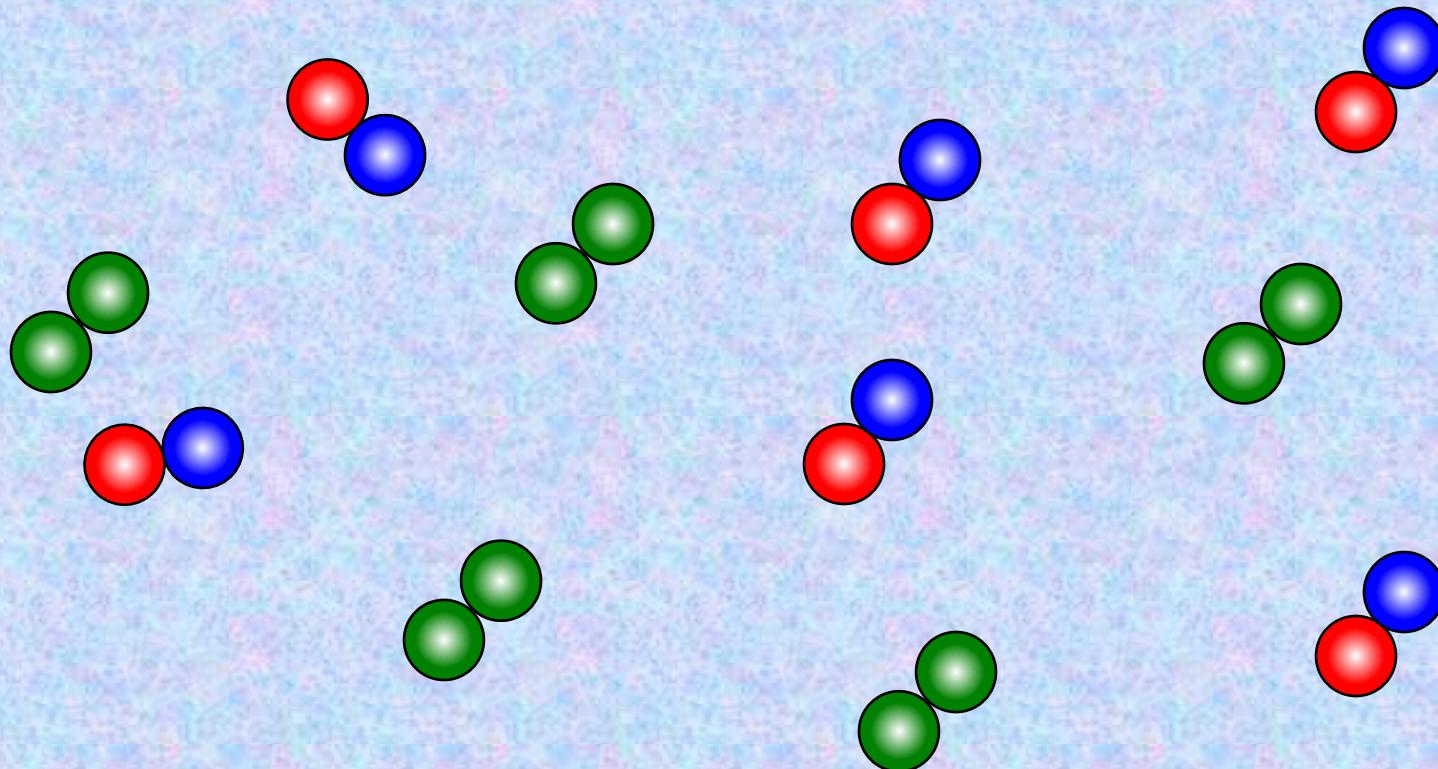
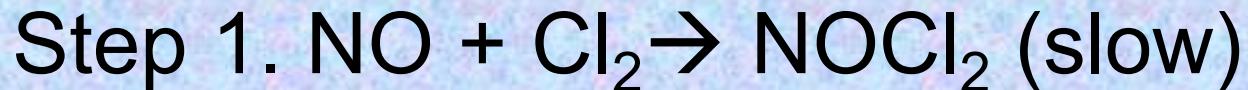
Step 2.  $\text{NOCl}_2 + \text{NO} \rightarrow 2 \text{NOCl}$  (fast)

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Overall:  $2 \text{NO} + \text{Cl}_2 \rightarrow 2 \text{NOCl} \Delta H = -157 \text{ kJ}$



# Project 7.



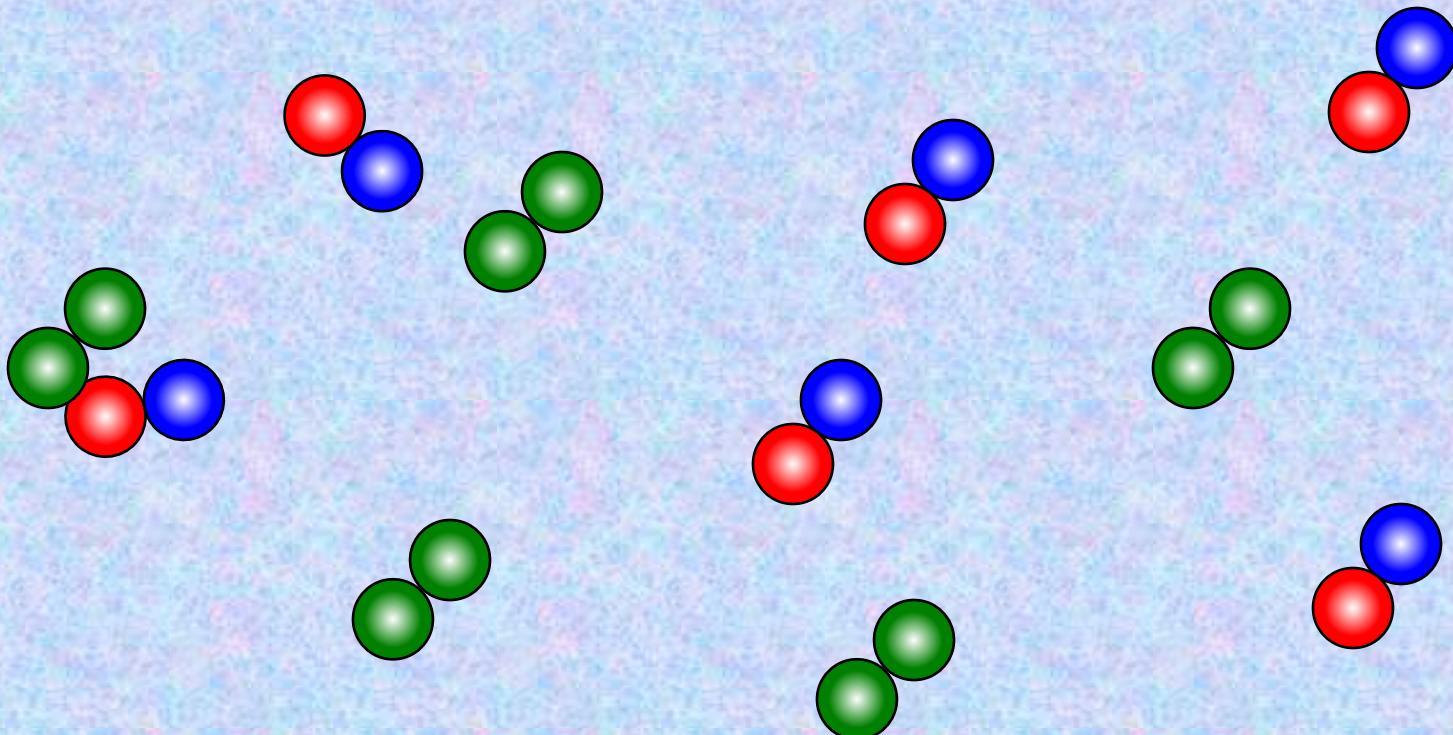
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Step 1.  $\text{NO} + \text{Cl}_2 \rightarrow \text{NOCl}_2$  (slow)

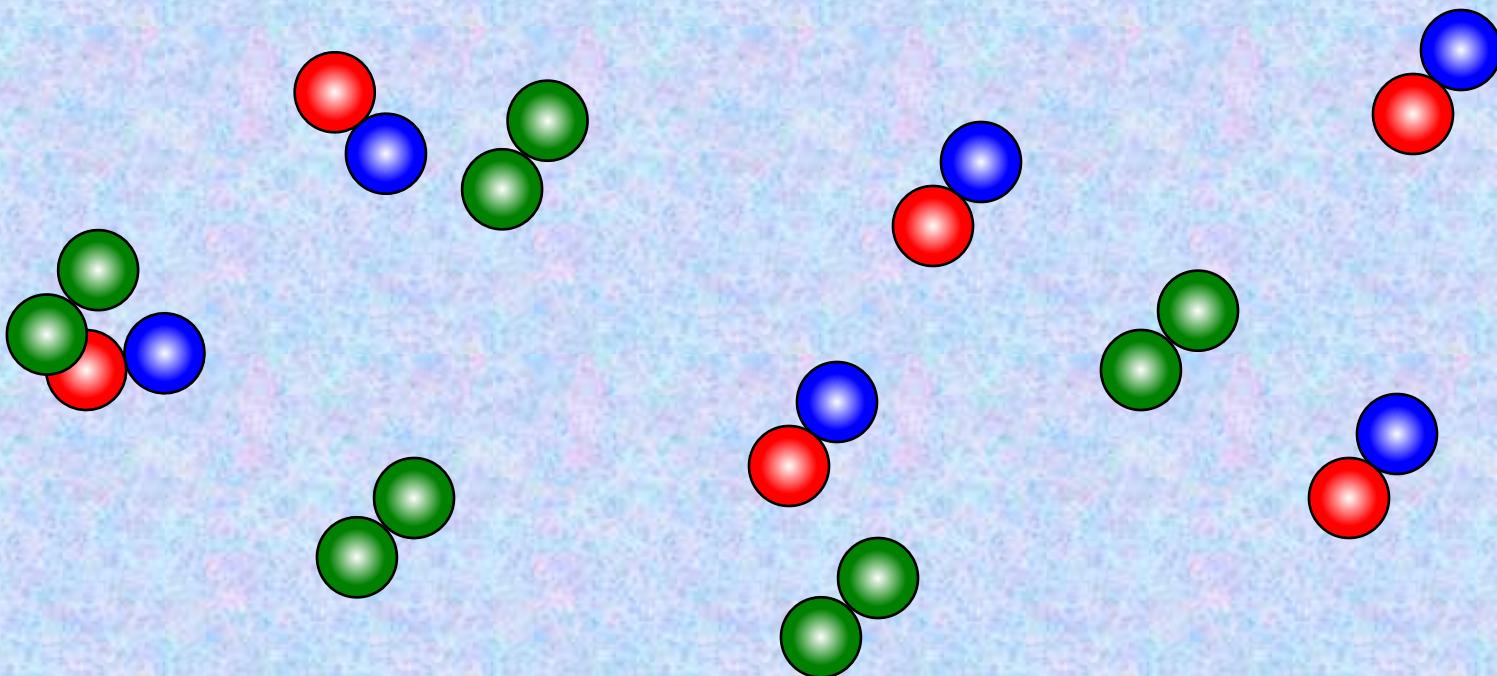
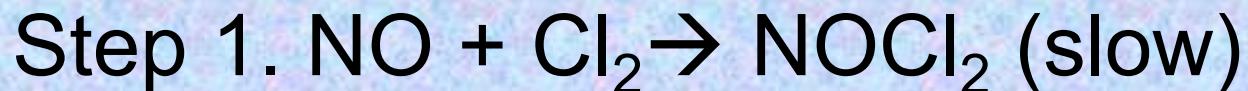
Step 2.  $\text{NOCl}_2 + \text{NO} \rightarrow 2 \text{NOCl}$  (fast)

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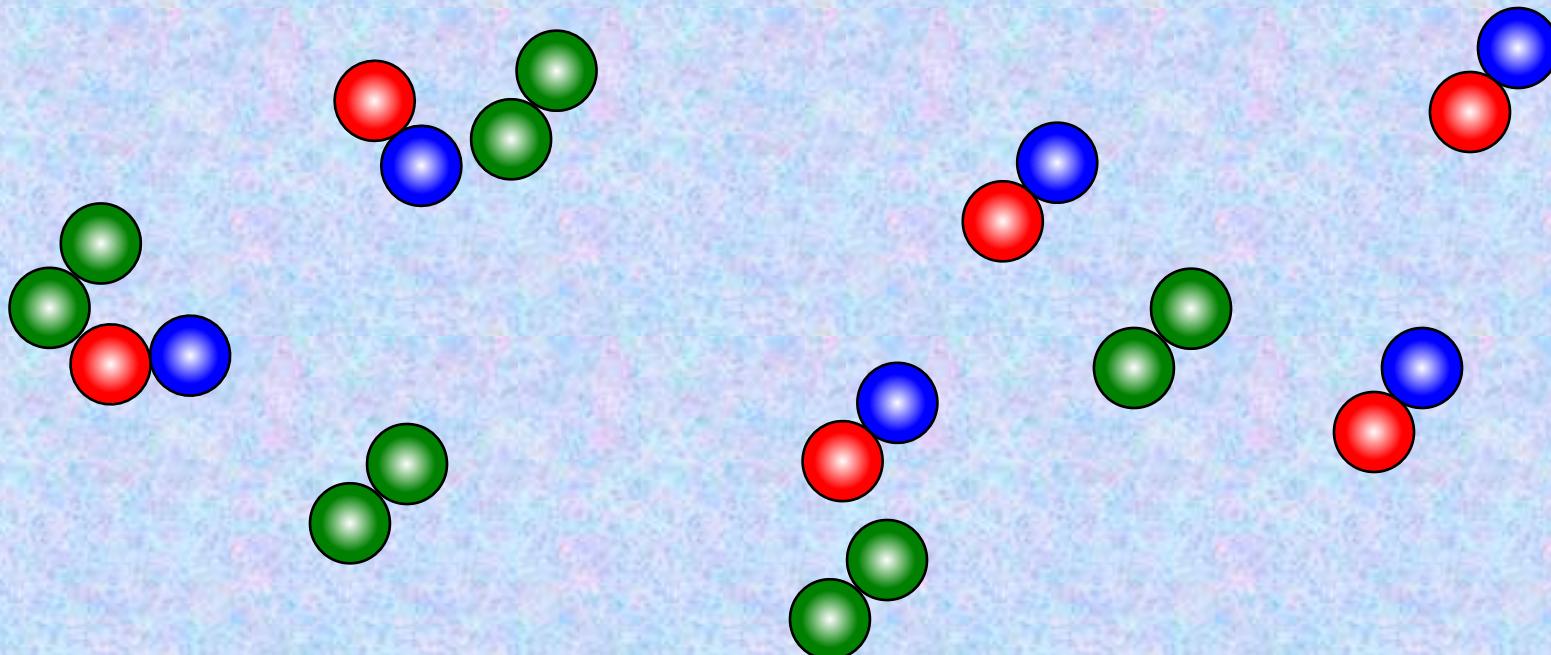
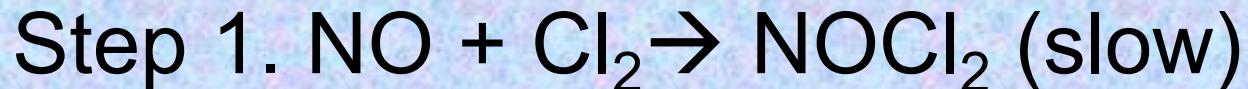
Overall:  $2 \text{NO} + \text{Cl}_2 \rightarrow 2 \text{NOCl} \Delta H = -157 \text{ kJ}$



# Project 7.



# Project 7.



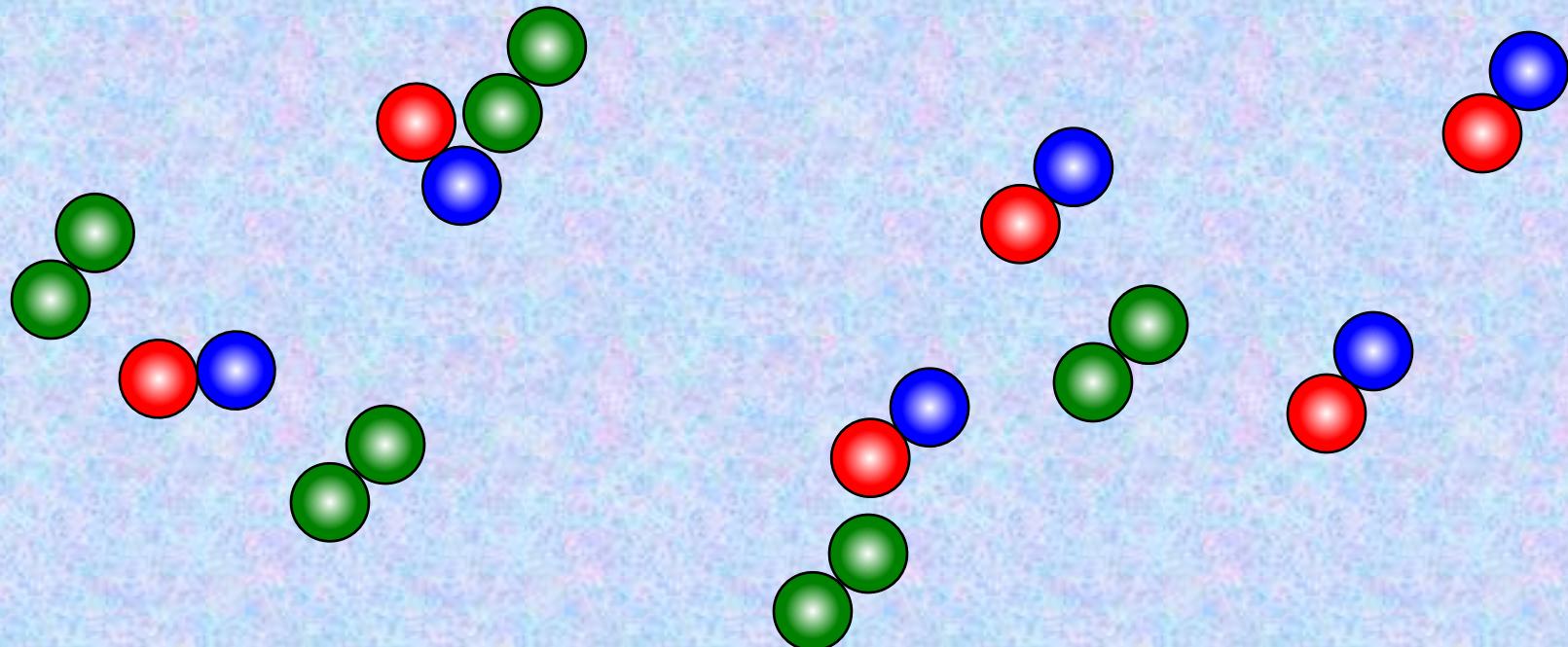
# Project 7.

Step 1.  $\text{NO} + \text{Cl}_2 \rightarrow \text{NOCl}_2$  (slow)

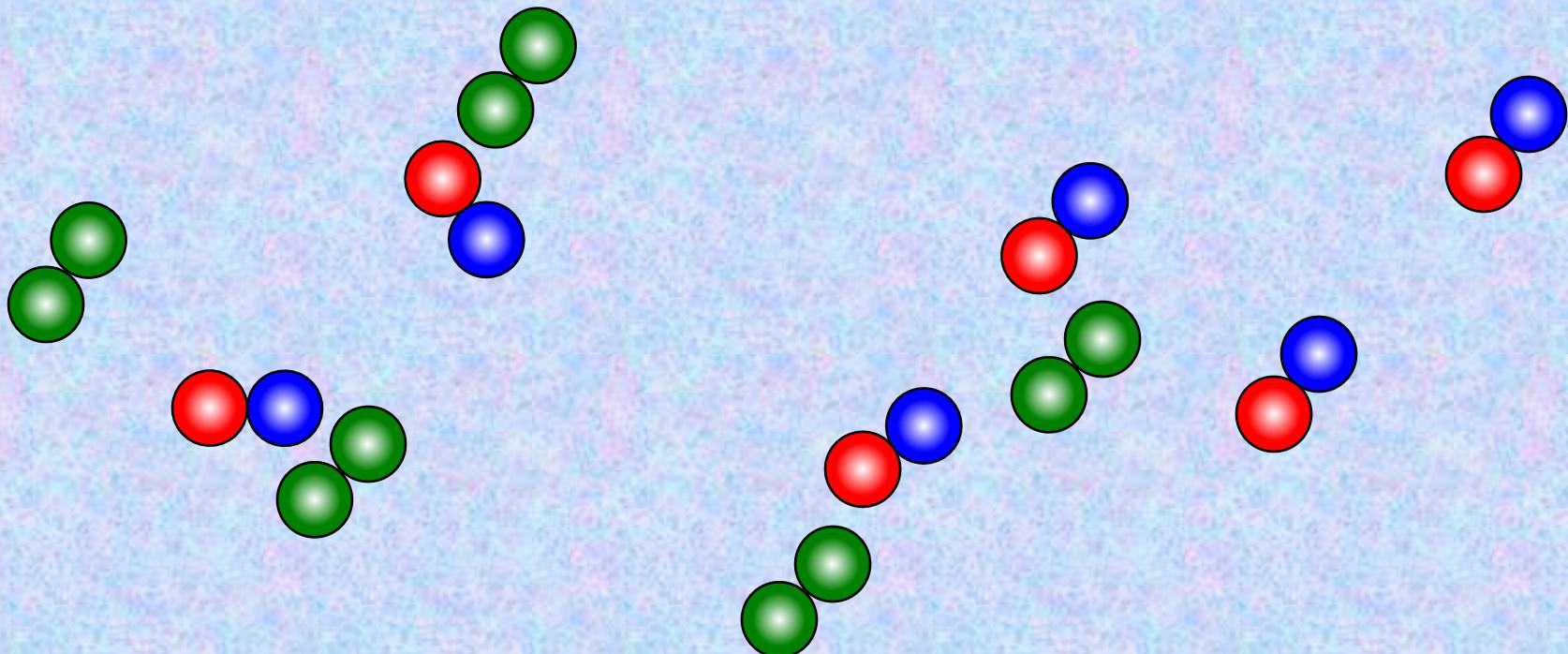
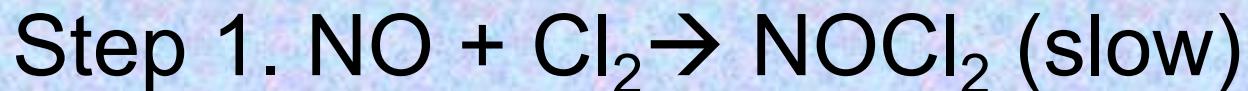
Step 2.  $\text{NOCl}_2 + \text{NO} \rightarrow 2 \text{NOCl}$  (fast)

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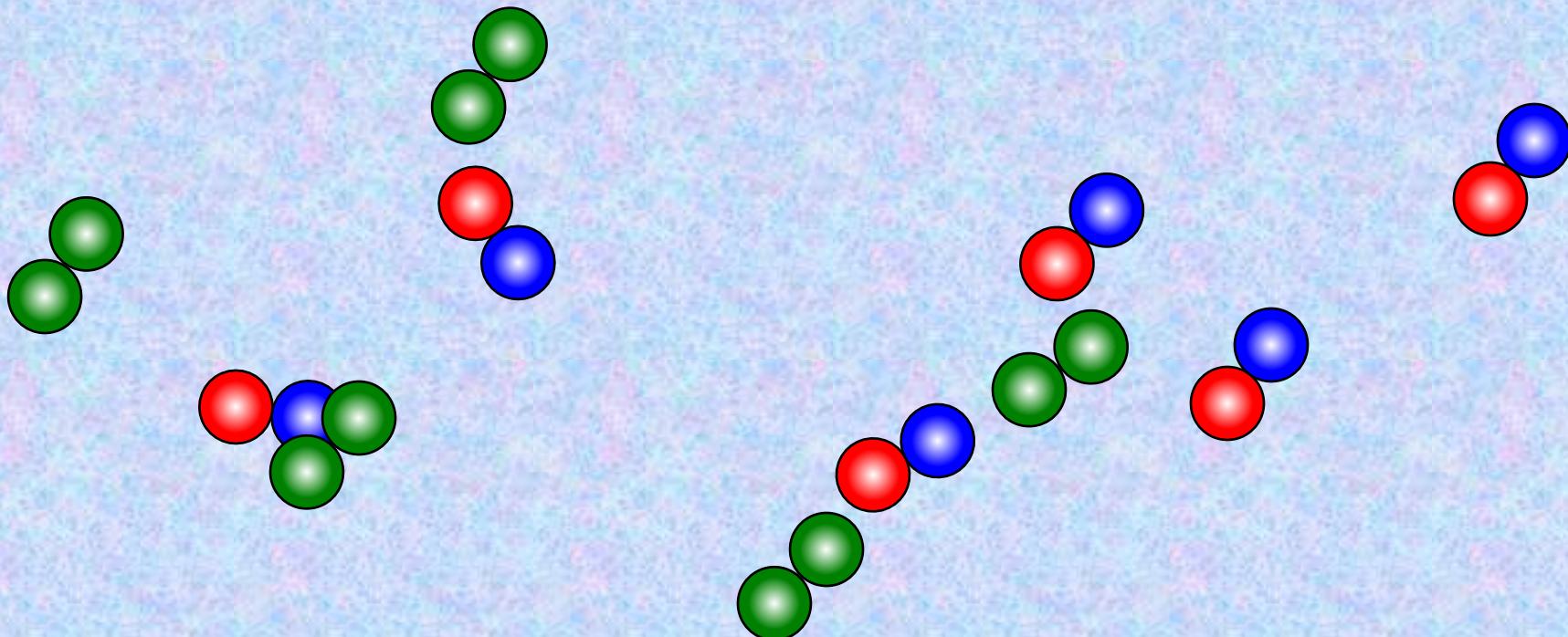
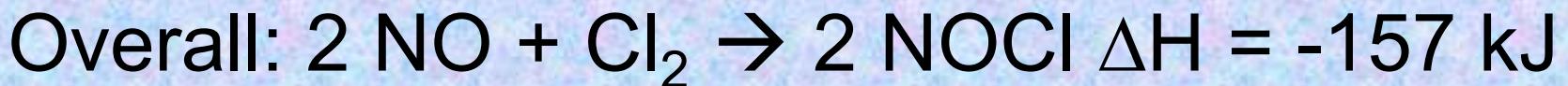
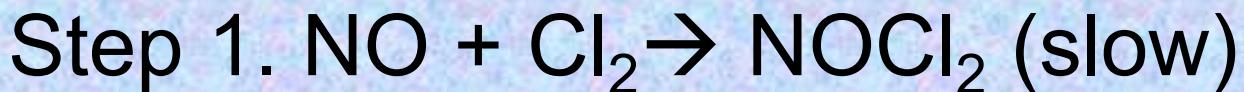
Overall:  $2 \text{NO} + \text{Cl}_2 \rightarrow 2 \text{NOCl} \Delta H = -157 \text{ kJ}$



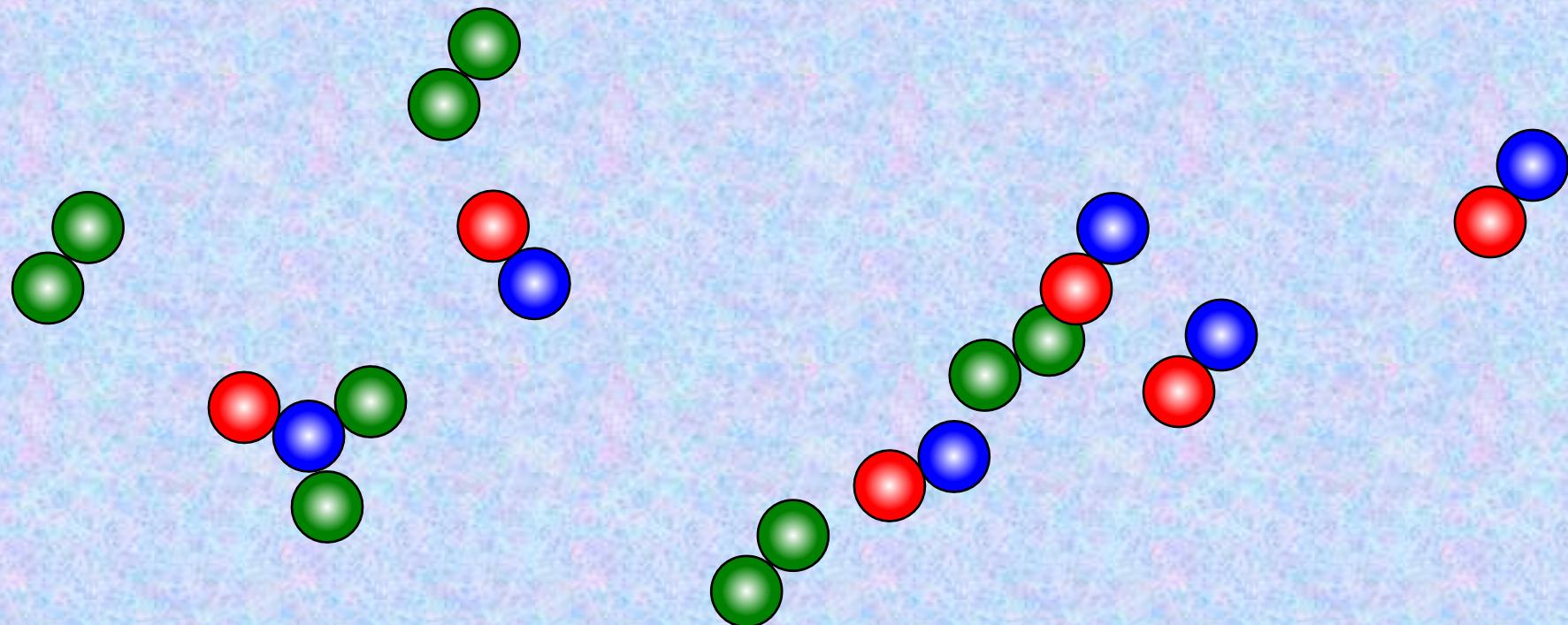
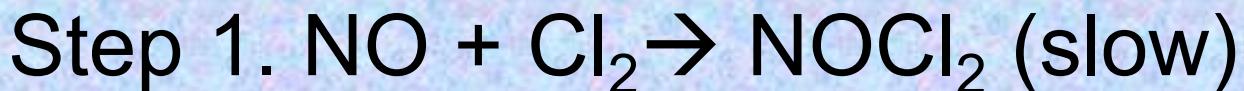
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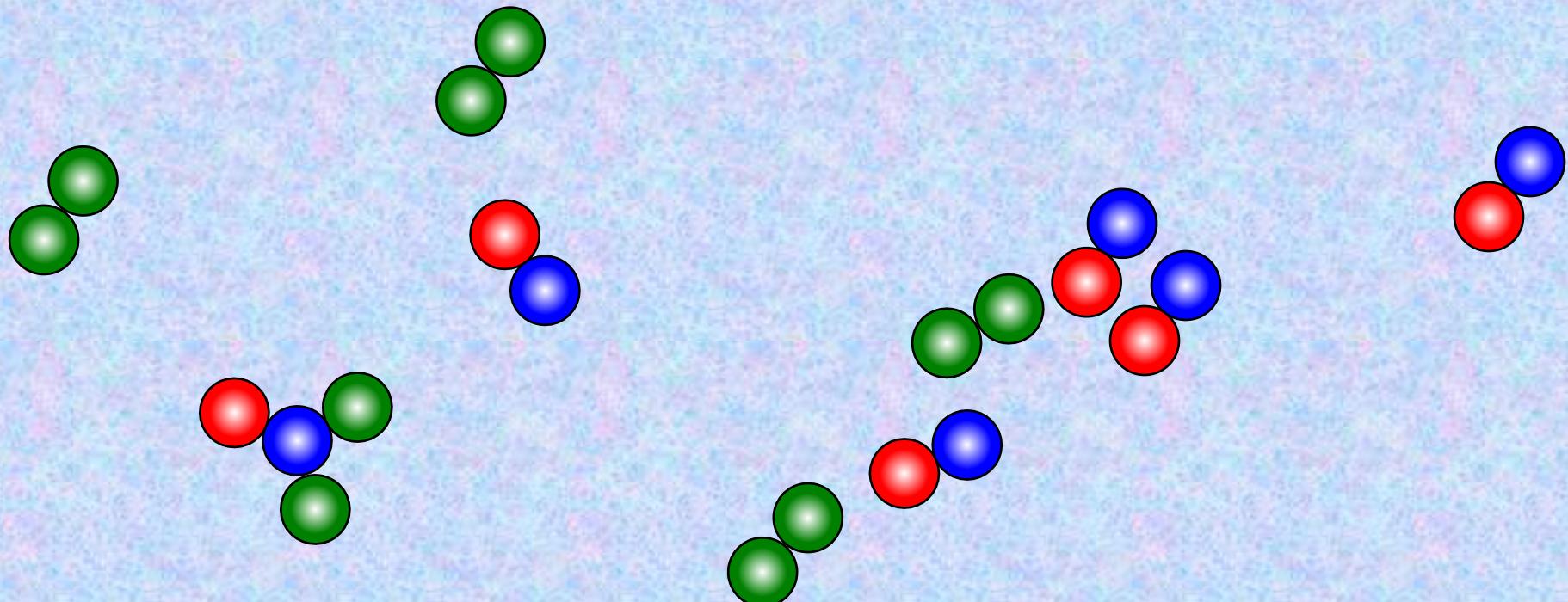
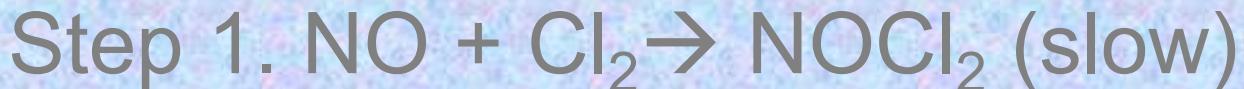
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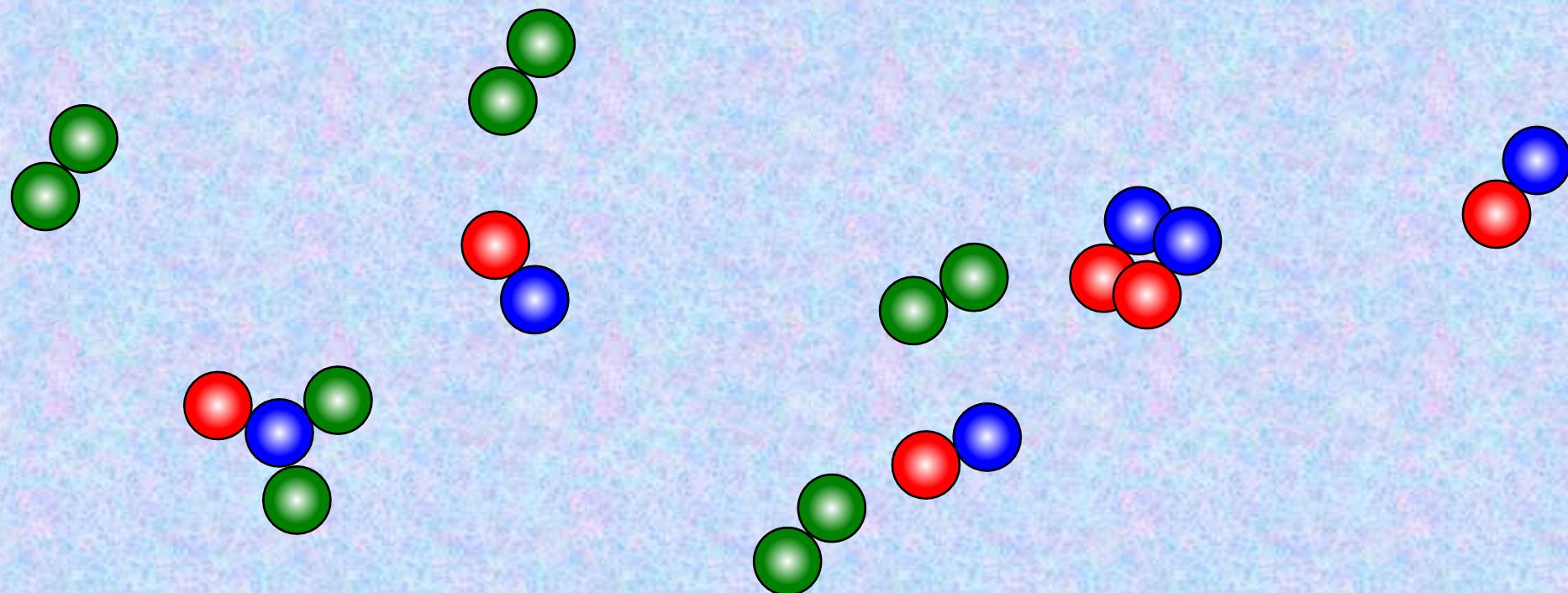
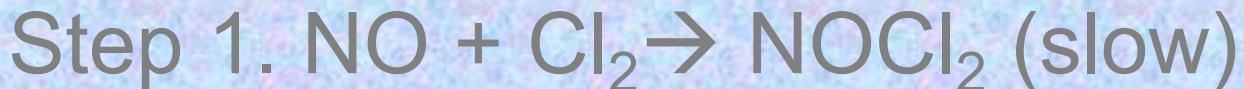
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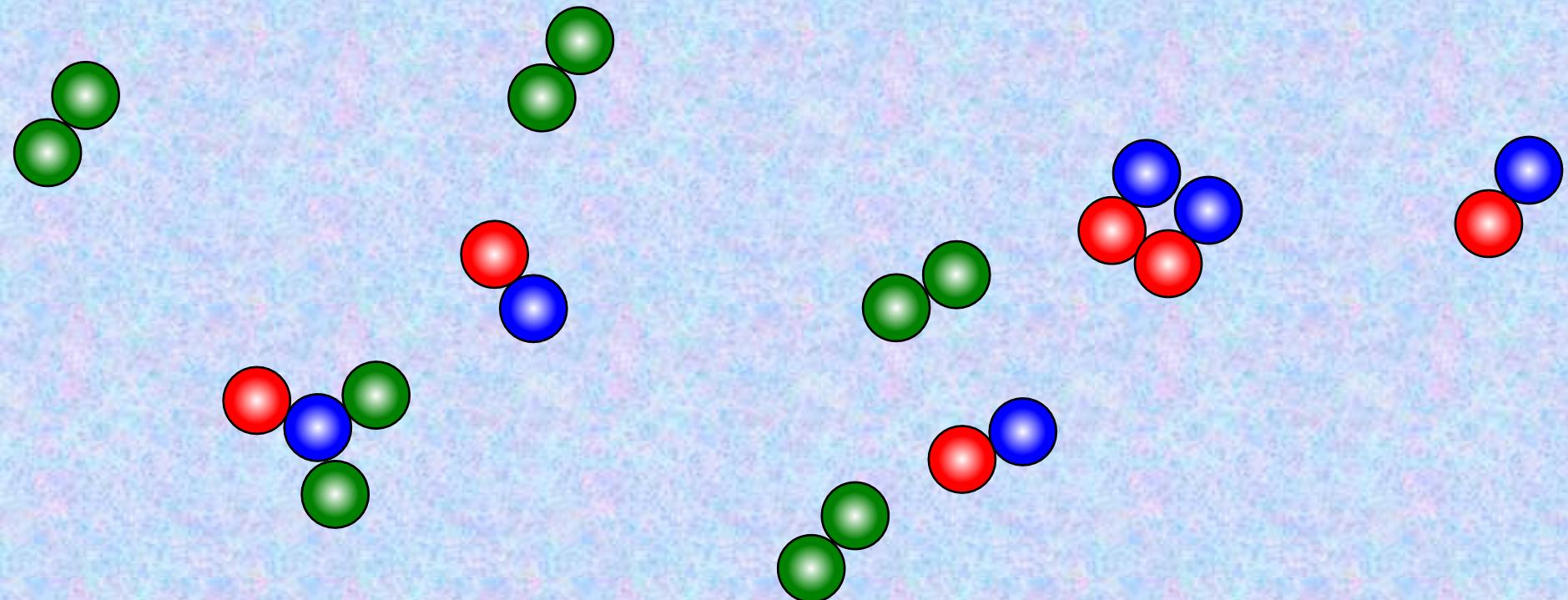
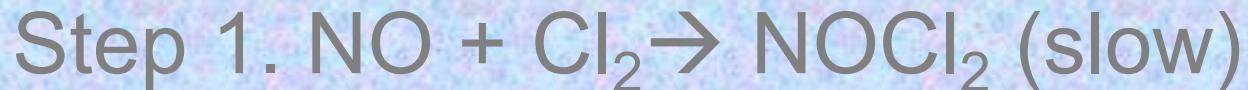
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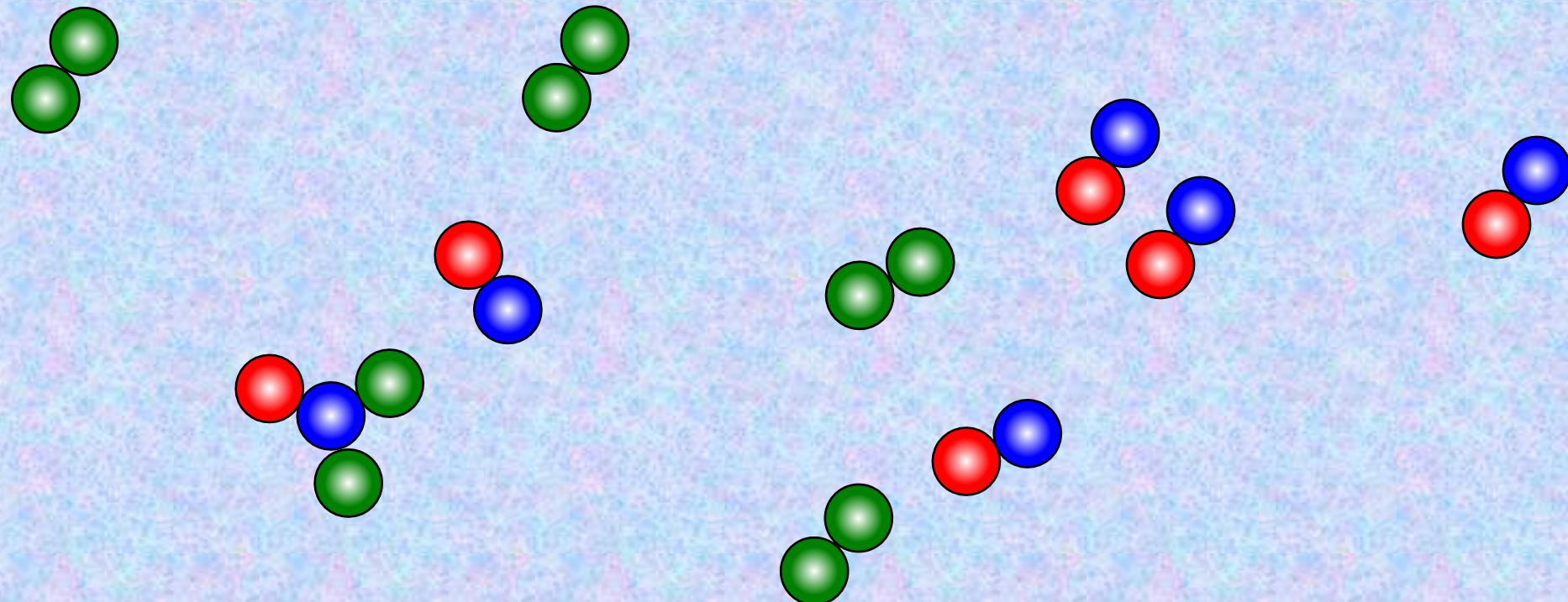
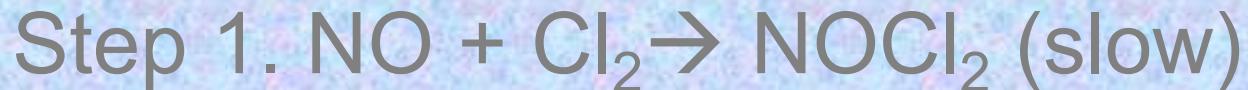
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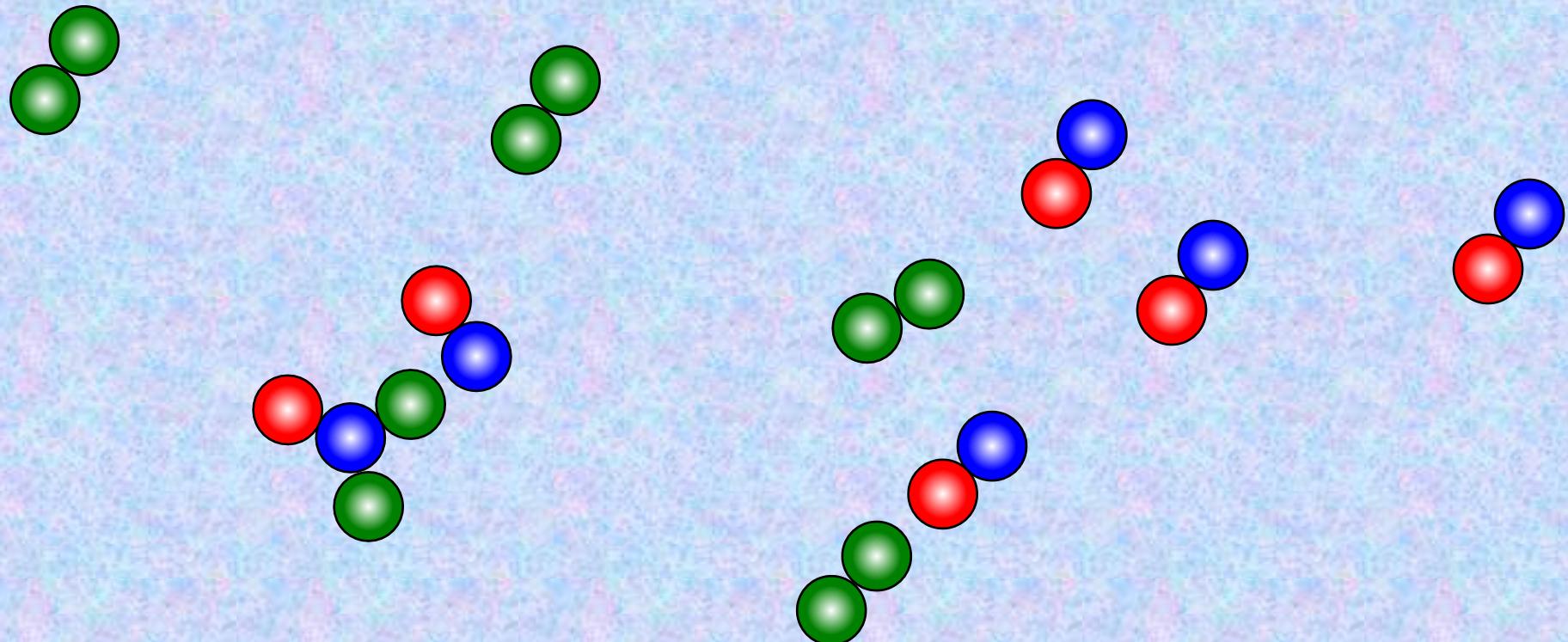
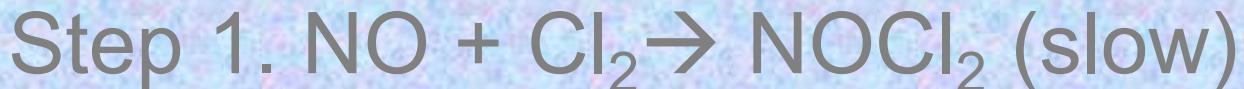
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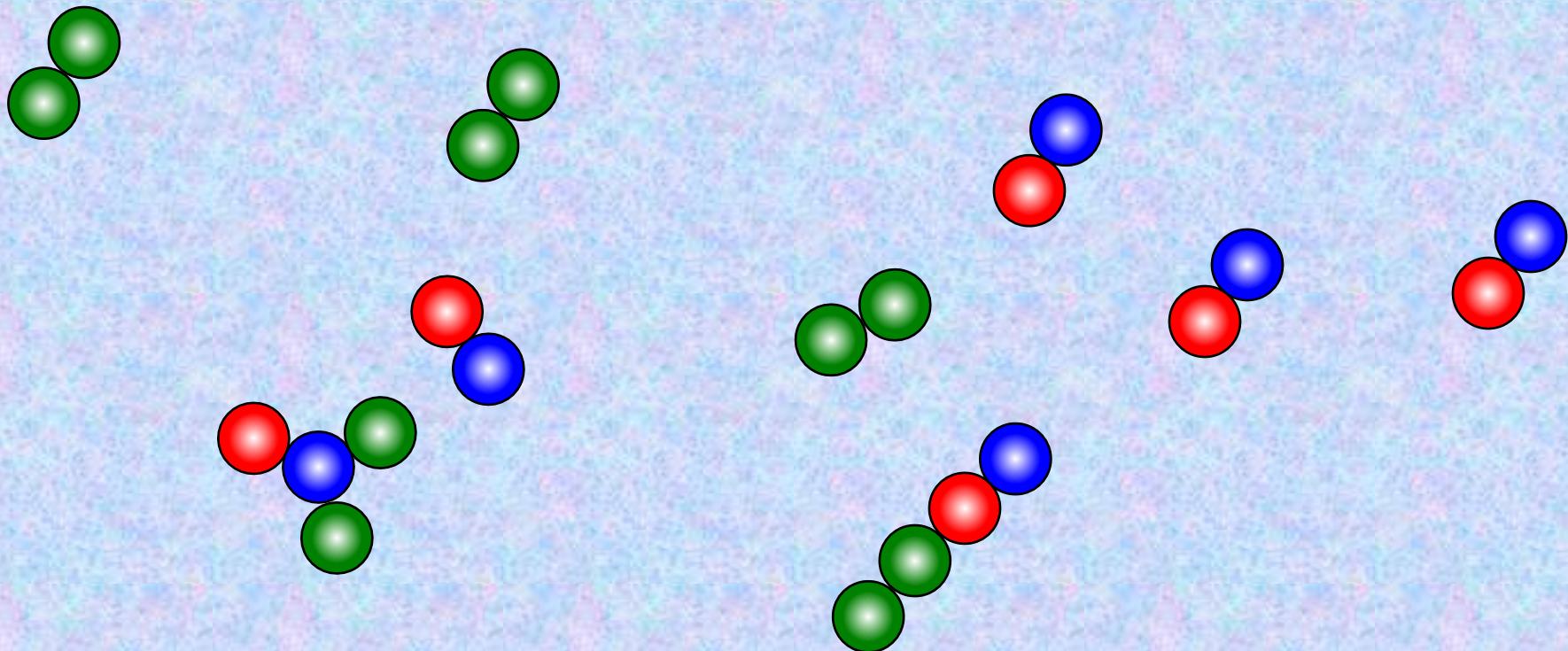
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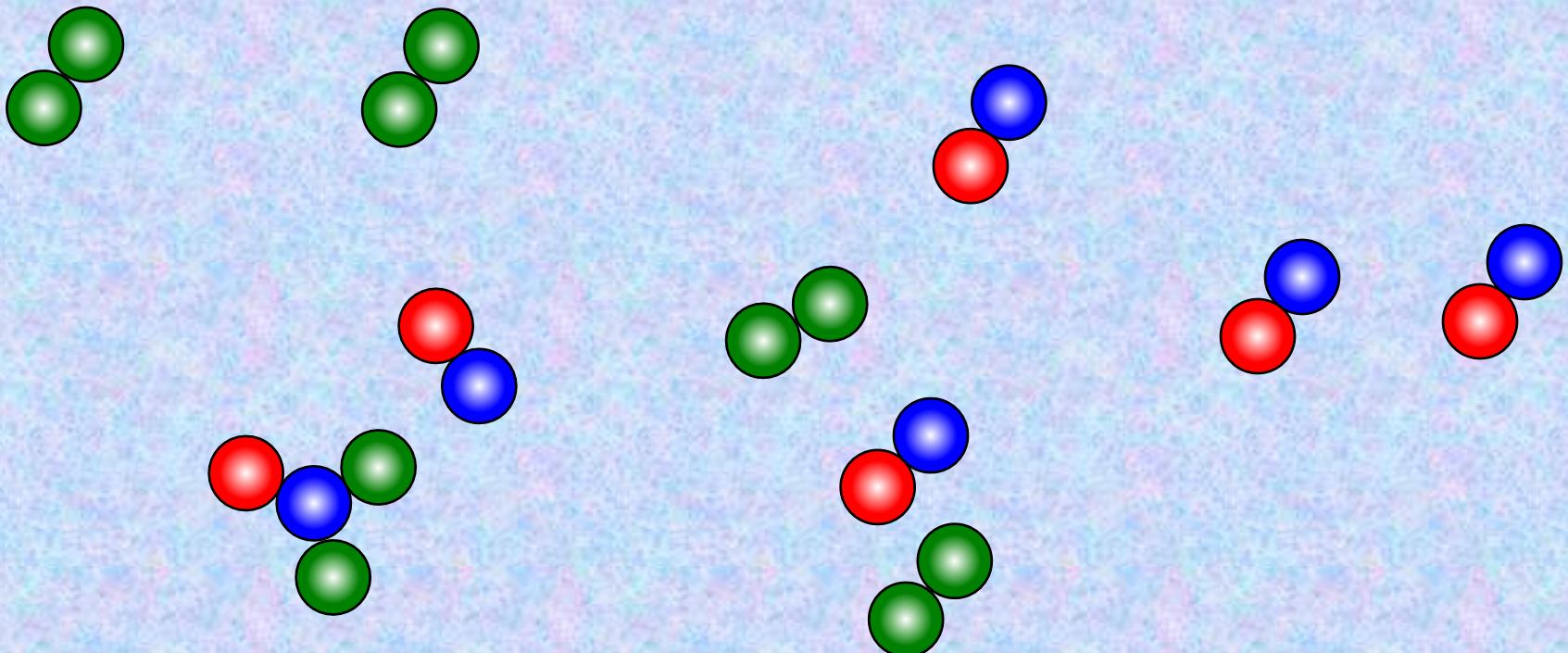
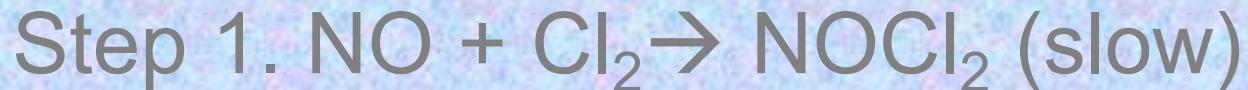
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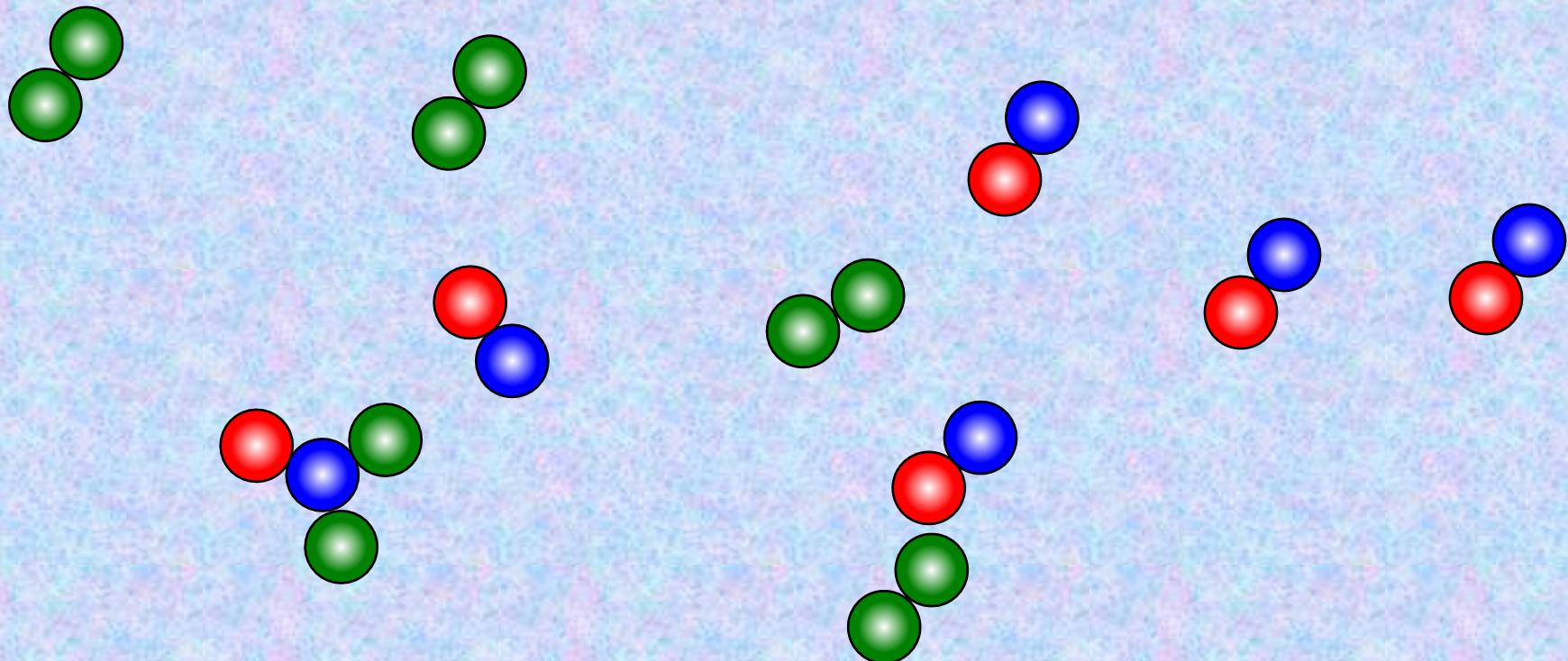
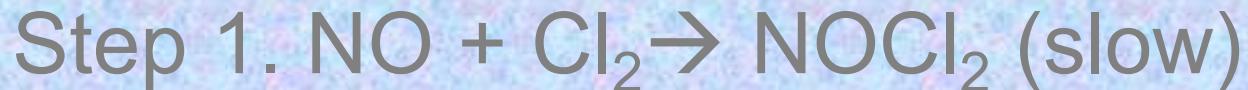
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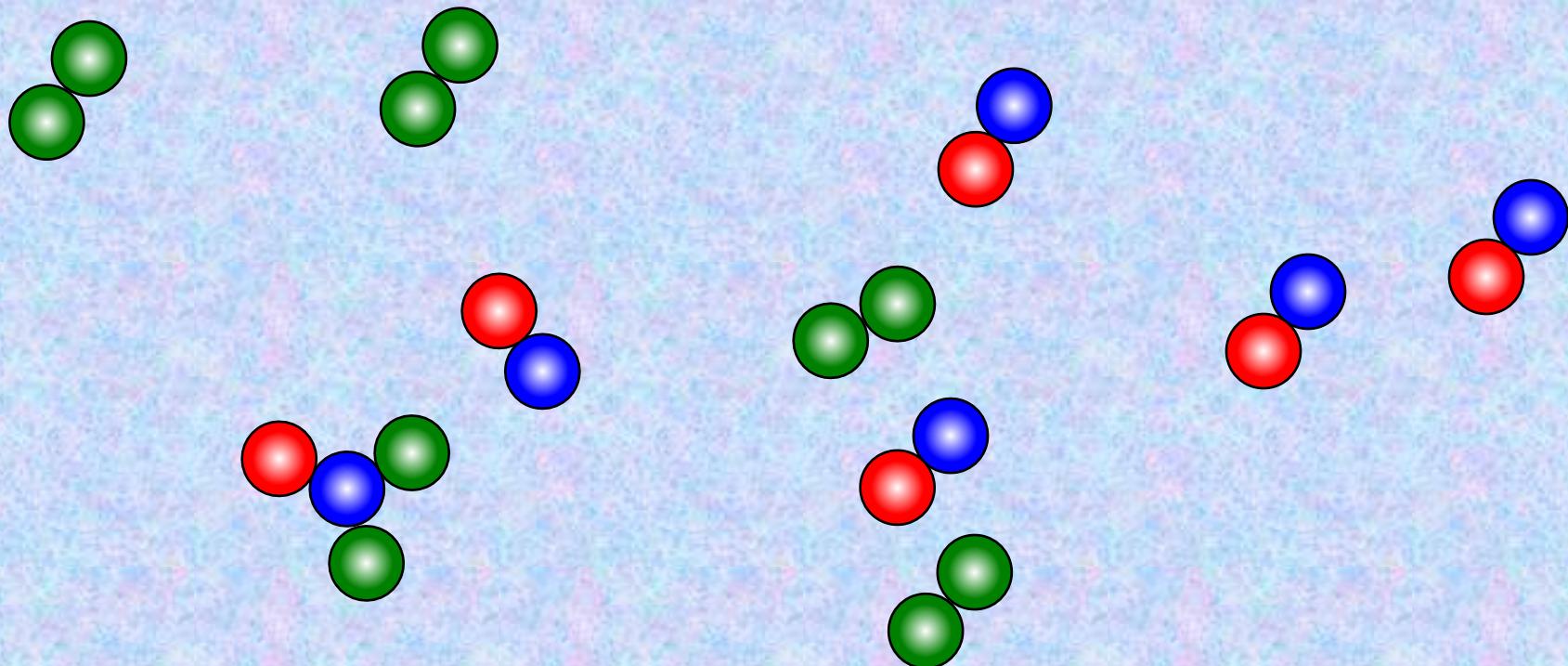
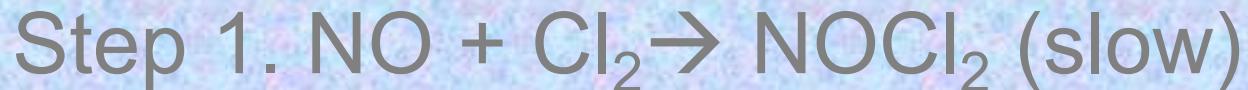
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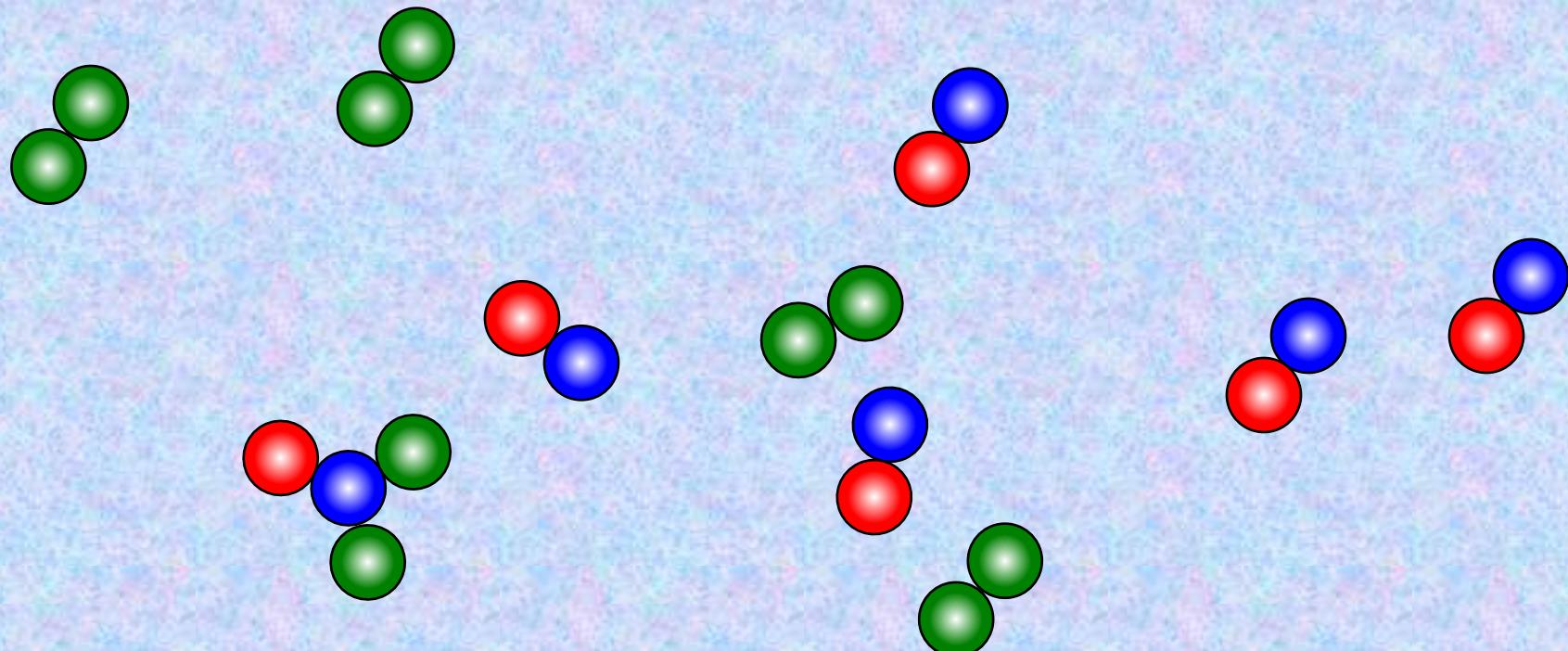
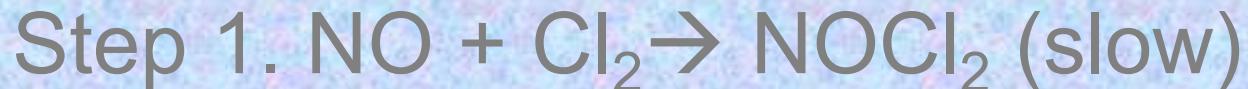
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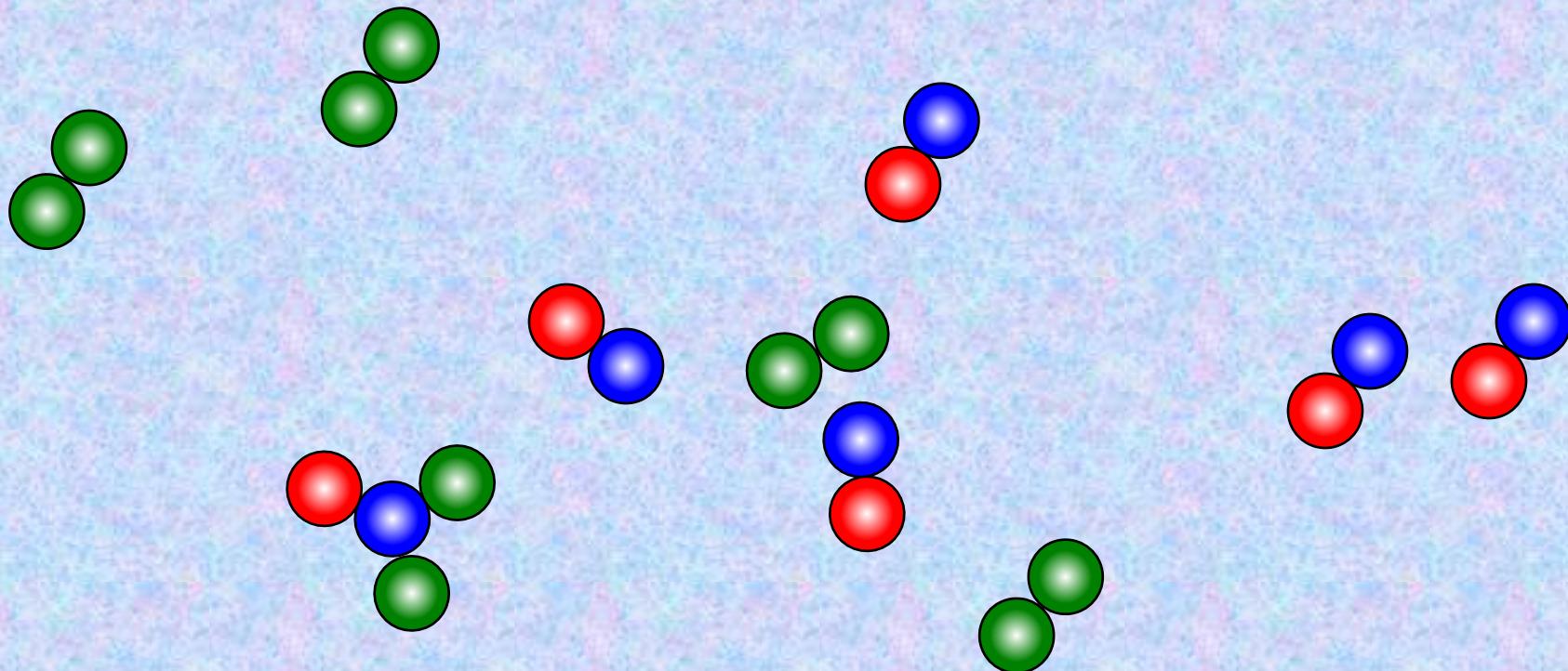
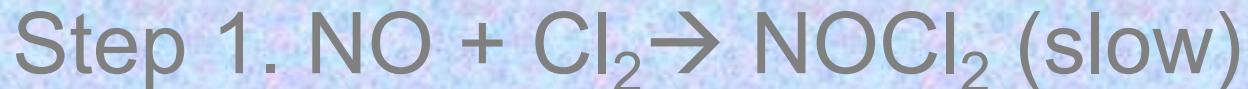
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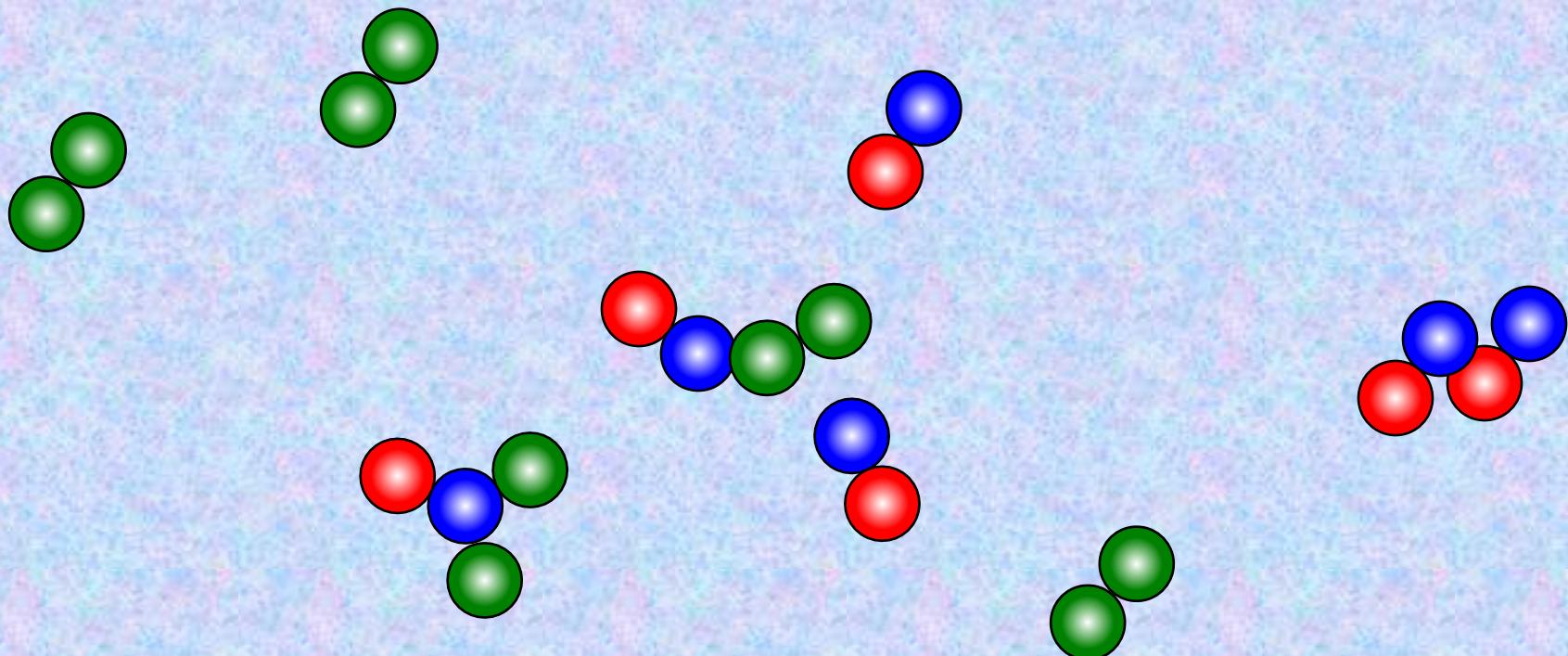
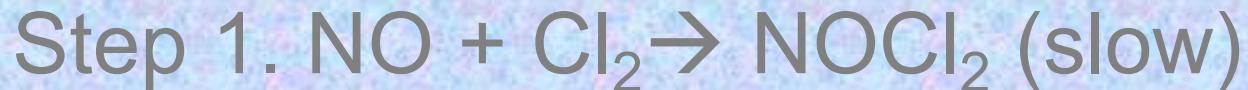
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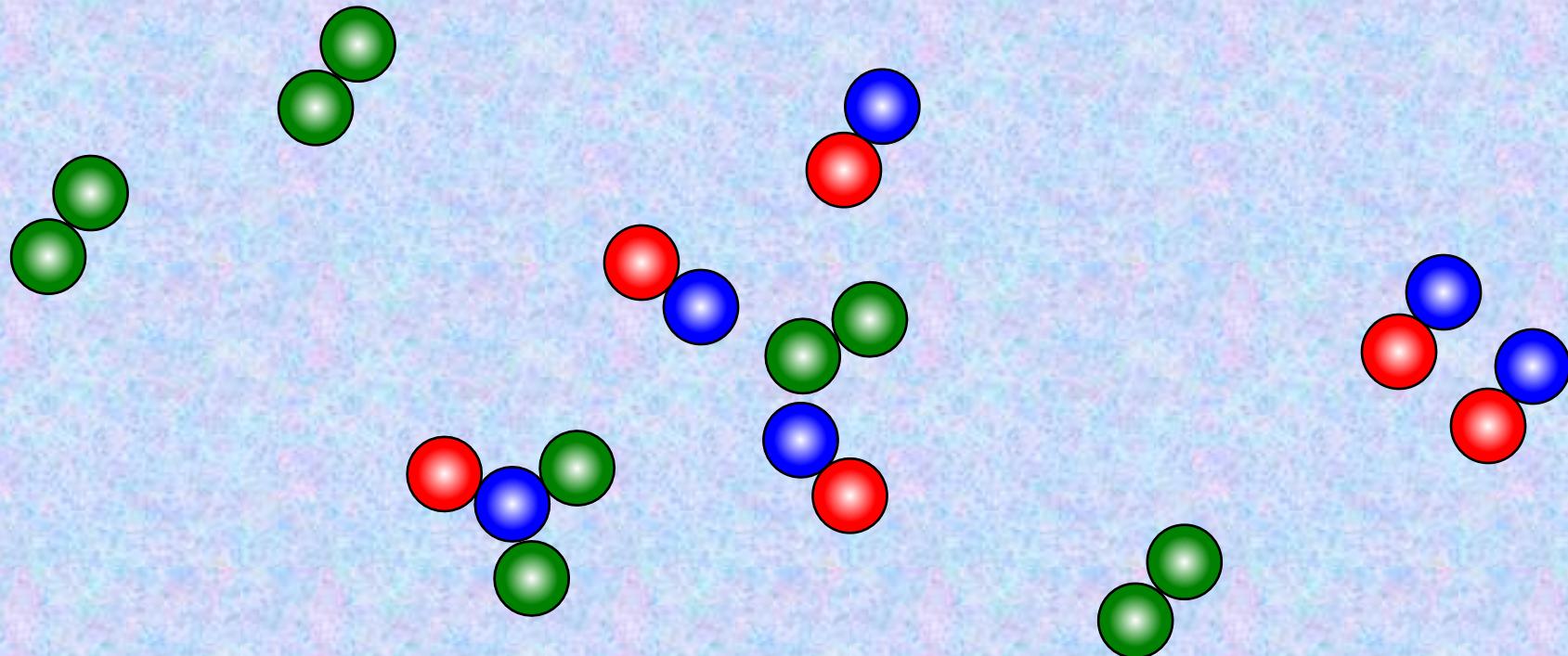
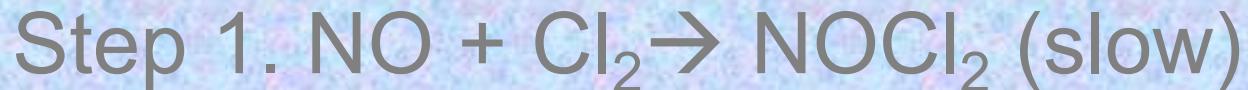
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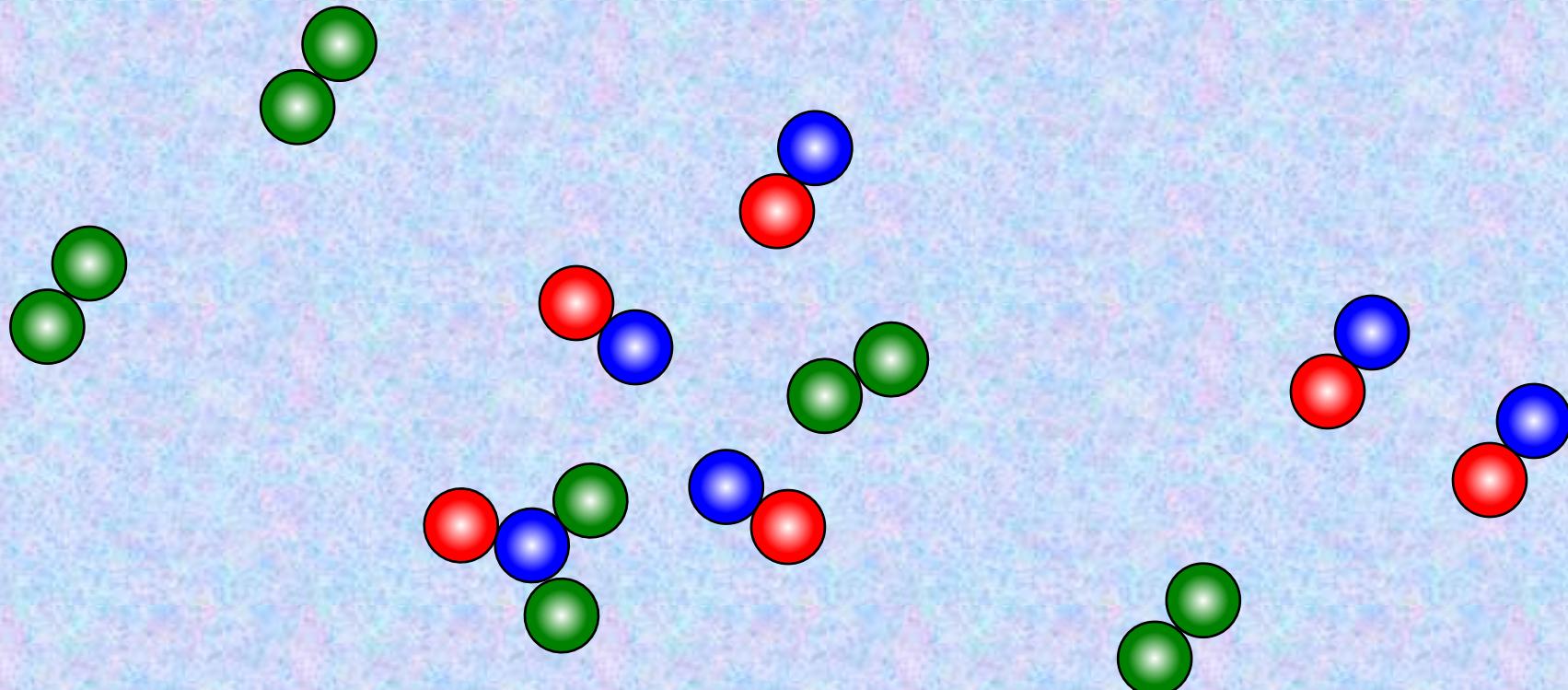
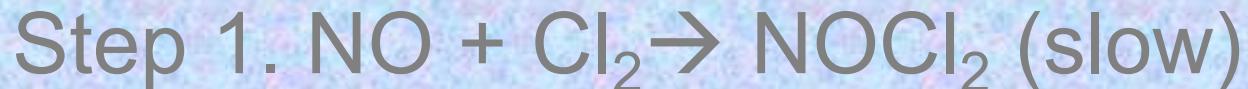
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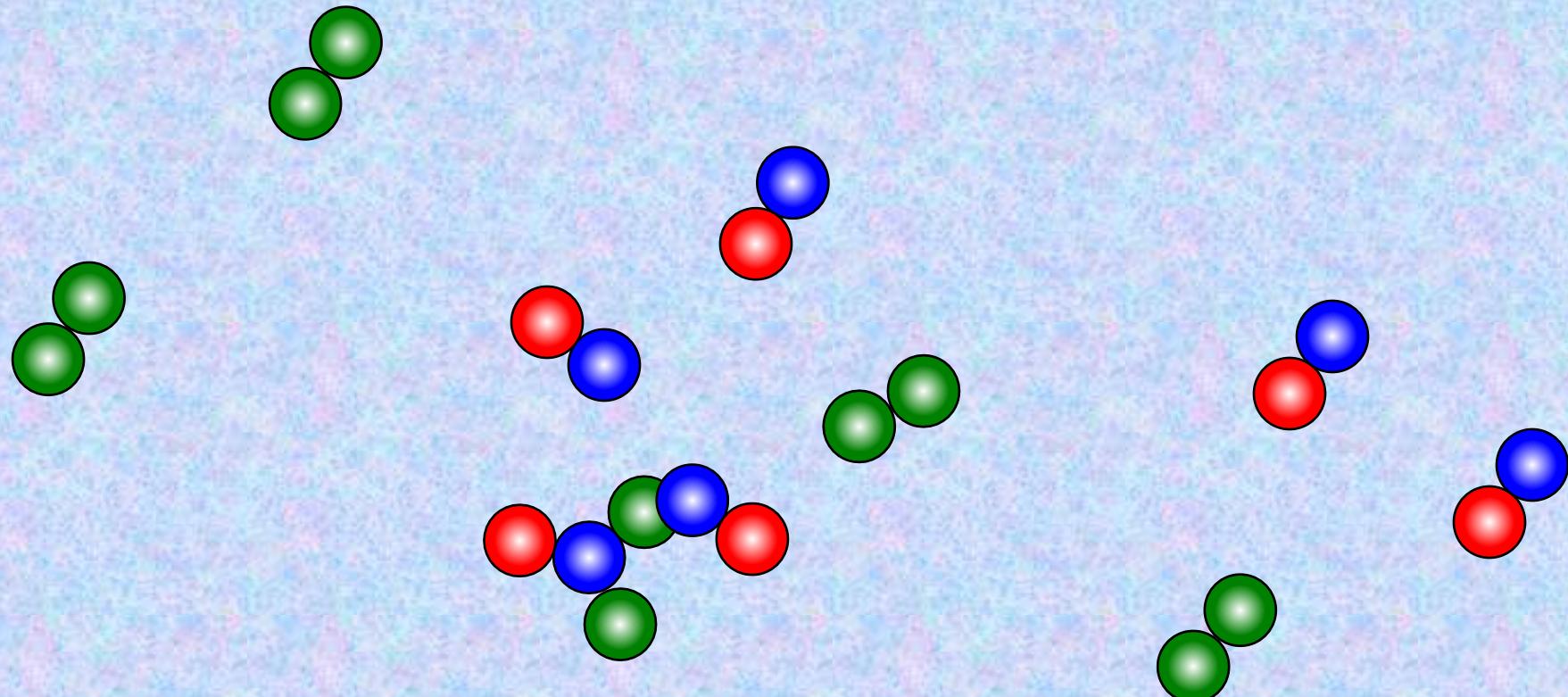
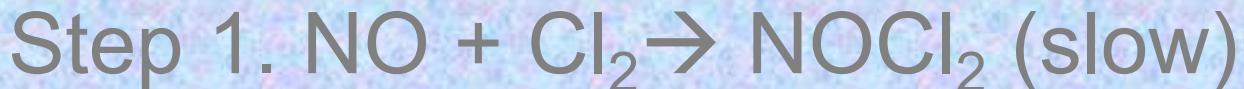
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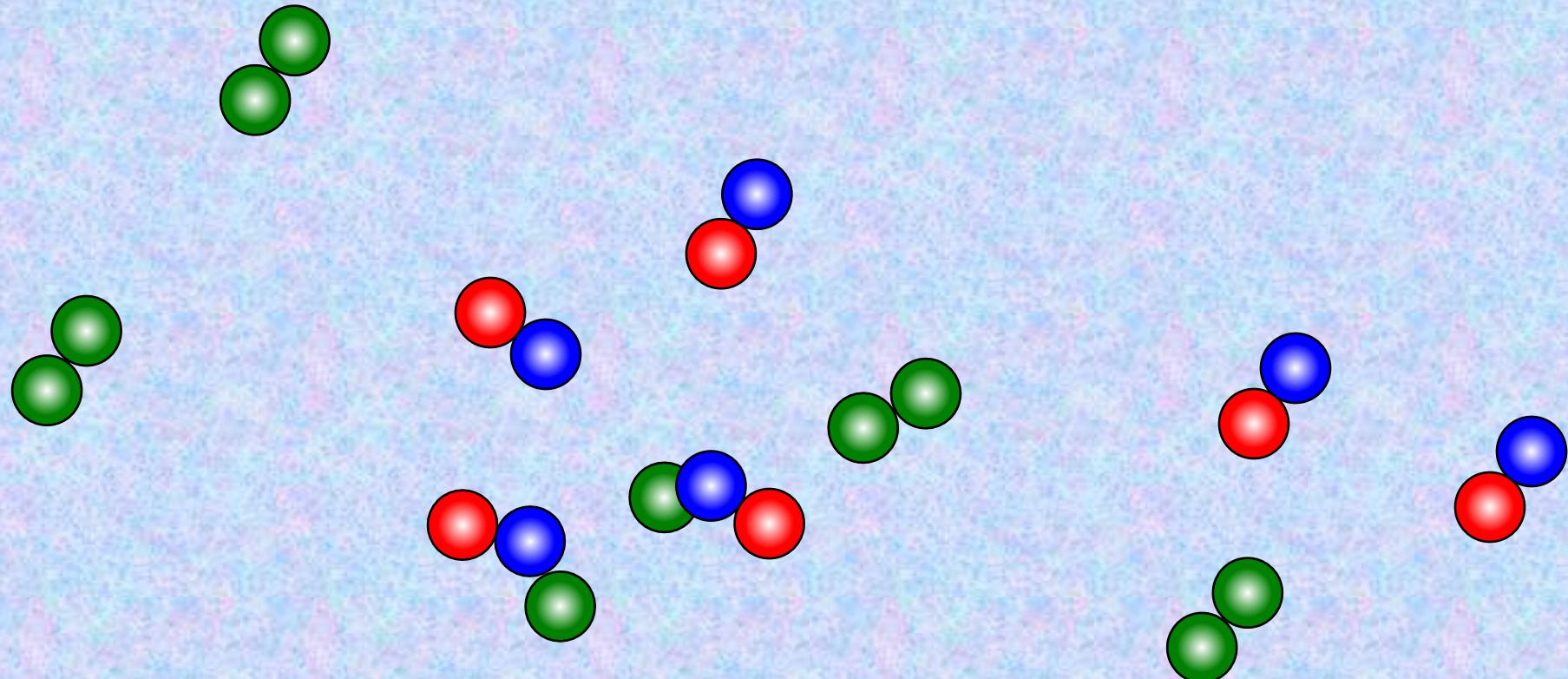
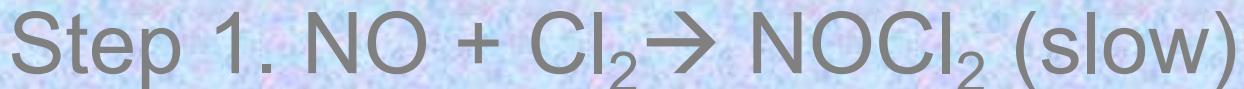
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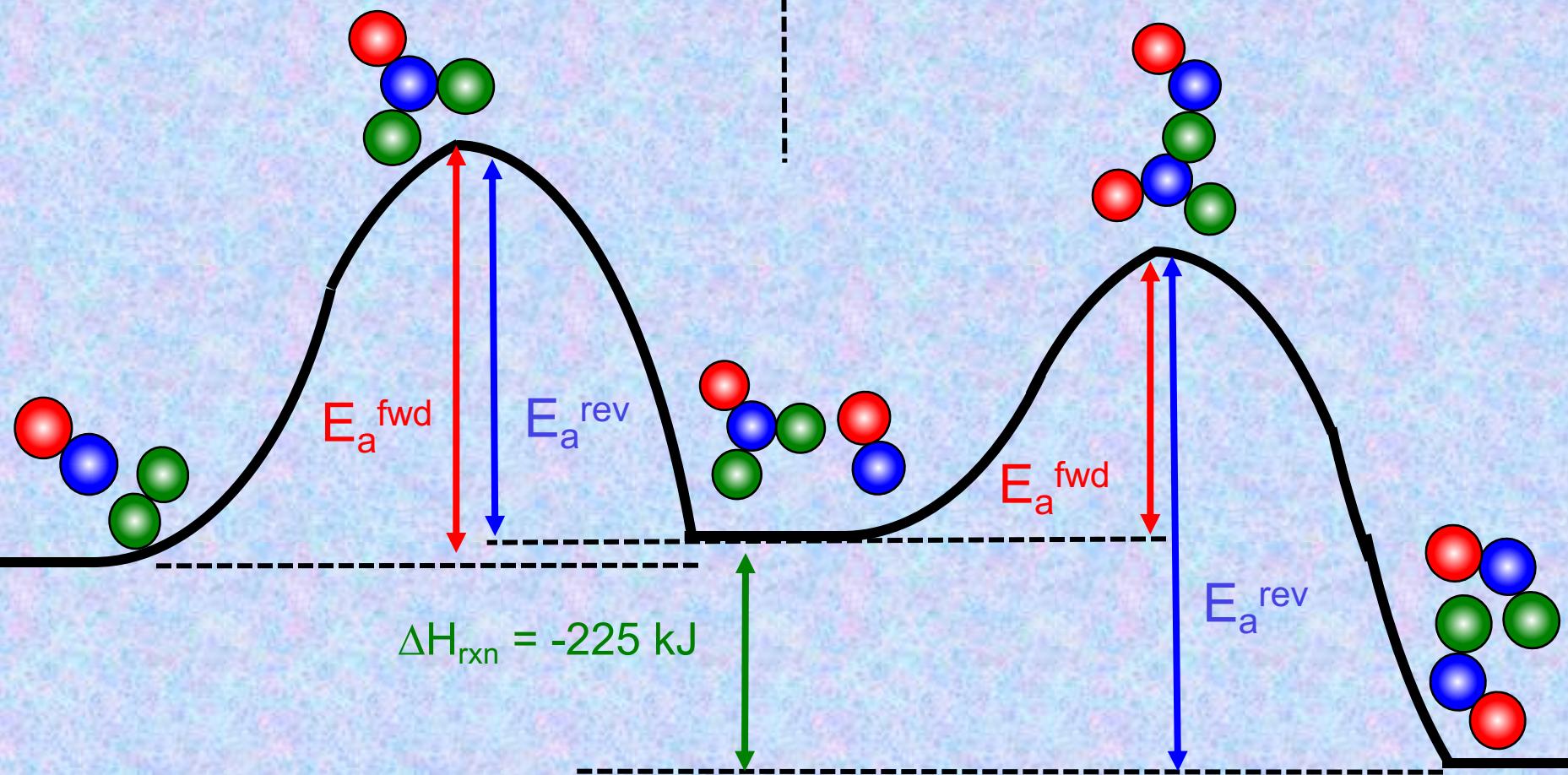


# Project 7.



Step 1.  $\text{NO} + \text{Cl}_2 \rightarrow \text{NOCl}_2$  (slow)

Step 2.  $\text{NOCl}_2 + \text{NO} \rightarrow 2 \text{NOCl}$  (fast)



$$\text{Rate} = k[\text{NO}]^1[\text{Cl}_2]^1$$

# Bryanna Bravo and Ashlyn Okada

