

Basic Stoichiometry

Why? In this activity we will address the question:
How do I convert between different chemical species in a given reaction?

Model 1



2 mol A produces 5 mol C

3 mol B produces 4 mol D

2 mol A reacts with 3 mol B

4 mol A produces 10 mol C

6 mol B produces 8 mol D

6 mol A reacts with 9 mol B

1. What do the coefficients of a balanced equation represent?
2. If 6 mol A are reacted, how many mol D are formed? Explain as a group how you calculated this answer and show your work.
3. If 15 mol B are reacted, how many mol C are formed? Make sure to show your work.
4. If 8 mol of A are reacted, how many mol B are used? Make sure to show the calculation.