**CHE1031 tutorial: Major types of chemical reactions[[1]](#footnote-1)**

**Please watch the video linked in the footnote and then answer these questions.**

1. What’s another term for synthesis reactions?
2. Using letters A, B and C to represent chemical compounds, write general equations for:
3. a synthesis reaction; &
4. a decomposition reaction.
5. Write a general formula for a combustion reaction. Focus on formulas rather than stoichiometry.
6. Many would call this reaction combustion: C(s) + O2(g) 🡪 CO2(g)
7. Why is this technically incorrect?
8. What type of reaction is it?

**5.** What’s the difference between single vs. double displacement reactions (aka single vs. double displacement, or displacement vs. exchange reactions). Again, using A, B, C, D:

(a) write a general equation for single displacement reactions; &

(b) write a general equation for double displacement (aka exchange) reactions.

DeWitt has a great video for **practice classifying reactions**. You might find it useful while doing homework or studying for exams.

# ‘Classifying types of chemical reactions practice problems’

https://www.youtube.com/watch?v=2qX9MOQOmAM

1. Video from Tyler DeWitt: <https://www.youtube.com/watch?annotation_id=annotation_1957664567&feature=iv&src_vid=aMU1RaRulSo&v=9U6uYRk-2ds> [↑](#footnote-ref-1)