

Task 10: Ostwald Process

The following document provides information that is relevant to Task 10.

It is highly recommended that students read and complete the questions in the '2021 Ostwald Process' document posted earlier on Connect.

For this task, students will be asked to demonstrate their understanding of the Ostwald Process and other chemistry content areas including:

- (i) Calculation involving:
 - . Simple stoichiometry.
 - . Limiting reagent.
 - . Reaction sequence.
 - . Percentage yield.
 - . Atom economy.
- (ii) Collision theory and reaction rates.
- (iii) Chemical equilibrium.
- (iv) Yield optimisation.
- (v) α -amino acids and zwitterions.
- (vi) Biological catalysts.
- (vii) Principles of Green chemistry, environment and economic impacts.
- (viii) Scientific Methodology – hypothesis, random and systematic errors, reliability, accuracy, validity and ethics.

Note: A separate document containing Ex-WACE examination questions is also posted along with this document to assist with Scientific Methods and general revision.