Activity 1: Ordering and managing stock levels

# Answers

1. 5 months
2. Potassium hydroxide
3. a. Citric acid and ethanoic acid

b. The rate of use means the volume of chemical in a container will be used exactly by its maximum storage date. Therefore, at least a part of any additional containers of chemical held will become unusable before the company has used these – so holding additional stock would lead to wastage.

1. 1June – so the delivery is received by 1 August when the previous stock will have just been used up.
2. a. Potassium hydroxide and silver nitrate

b. The chemicals have to be paid for but not used/there will be a cost to dispose of the unused chemicals/other reasonable suggestion.

1. The company will use one container every two months, but it takes 3 months from the date of an order to receive a new delivery. Therefore, at any given time the company must have at least one container in use, and one unused, to ensure stock is always available.
2. Six containers

Six containers = 12 months’ use.

This would be the maximum number of containers of sodium hydroxide the company could hold without the stock going beyond its maximum storage time.

1. Ensuring a sufficient supply of required consumables and materials

Reducing the costs of excess stock

Improving productivity

Ensuing that chemicals are used before the expiry date

Ensuring the safety of stocks of chemicals