Following Two Oxygen Changes in Peroxide

Scoring guide · one credit per question · review written work against each rubric

Following Two Oxygen Changes in Peroxide

Question 1

Choice (2)

Oxygen goes from −1 in peroxide to 0 in O_2. The increase corresponds to oxidation.

Question 2

Water contains oxygen with oxidation number −2. This is a decrease from −1, so that oxygen is reduced.

Question 3

Two oxygen atoms each increase by one, giving a total increase of 2. Two oxygen atoms each decrease by one, giving a total decrease of 2. The magnitudes match.

Question 4

Different oxygen atoms change in opposite directions. The ones that form O_2 go from −1 to 0. The ones that form H_2O go from −1 to −2.