Checking Iron Protection After a Contact Opens

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Checking Iron Protection After a Contact Opens

Question 1

Choice (2)

Q converts one iron atom to an ion, while P converts four.

Question 2

P forms one zinc ion and releases two electrons at zinc. Q forms five zinc ions and releases ten.

Question 3

The same area of iron contacts the same liquid in both trials, and the zinc covers none of it. The iron-ion count falls from four to one when the wire is connected. A physical barrier does not explain that change. The controlled comparison supports a role for the conducting connection.

Question 4

The wire reading should fall to zero. The class should look for a greater rate of iron-ion formation after opening compared with before opening, using equal time intervals.