McCumber Cube – is a framework that was developed to help in managing and implementing cybersecurity.

This model was developed in 1991 by John McCumber.

To ensure information security, three attributes were addressed;

1. Confidentiality

Assurance that information was not disclosed to unauthorised individuals or organizations.

It involves measures such as access control, encryption etc.

1. Integrity

Involves maintaining the accuracy and trustworthiness of information by preventing unauthorized modification, ensuring data consistency and implementing error detection systems.

1. Availability

Availability addresses accessibility and usability of information and resources which involves measures to prevent and mitigate disruptions, such as redundancy, fault tolerance, and disaster recovery planning.

By considering these three dimensions, organizations can develop an approach to protecting their information. This framework ensures a systematic and structured analysis of security requirements, ensuring that all critical aspects of security are considered and addressed.

In real world application, this framework helps companies identify vulnerabilities and ways of addressing the weaknesses.