

QUESTIONNAIRE

Computer Science/Chemistry,
School of Science,
Kwara State College of Education Ilorin,

Dear Respondent,

The researcher is a final year Computer Science/Chemistry student of the above mentioned institution. I am currently carrying out a research work on **"Enhancing Conceptual Understanding in Chemistry Through Technology Integrated Teaching"**. The research is a requirement for the award of the Nigeria Certificate in Education (NCE). Kindly complete the attached questionnaire. Your response will be used strictly for academic purpose and shall be treated with utmost confidentiality.

Thank you.

Yours faithfully,

Abdul Azeez Hikmah Ayomide

KWCOED/IL/22/0316

Instructions: This questionnaire is designed to gather your honest opinions about learning chemistry and your experiences with technology in the classroom. Please tick (✓) in the appropriate column as it is applied.

Section A: Demographic Information

1. Gender: Male [] Female []
2. Age: 12-15 [] 16-19 [] 20-23 [] 24 and above []
3. Class: SS 1 [] SS 2 [] SS 3 []
4. School: _____

Section B: Conceptual Understanding in Chemistry

(Aligned with Research Question 1 and 2)

Rate your level of agreement with each statement below. Please tick (✓) the option that best reflects how you feel:

S/N	Statement	Strongly Agree (SA)	Agree (A)	Disagree (D)	Strongly Disagree (SD)
1	I understand basic chemistry topics such as atomic structure and chemical bonding.				
2	I can solve chemistry problems with little or no help.				
3	I perform better in chemistry when digital tools are used.				
4	I understand chemistry concepts more clearly when taught with technology.				
5	Technology-integrated lessons make abstract chemistry concepts easier to understand.				

C: Effectiveness of Digital Tools in Learning Chemistry (Aligned with Research Question 3)

S/N	Statement	Strongly Agree (SA)	Agree (A)	Disagree (D)	Strongly Disagree (SD)
6	I find simulations and animations helpful in learning chemistry.				
7	Video lessons improve my understanding of chemistry topics.				
8	Virtual labs make chemistry more practical and exciting.				
9	Using platforms like Google Classroom or WhatsApp helps me learn chemistry better.				
10	Educational games (e.g., Quizizz, Kahoot) make learning chemistry more effective.				

Section D: Student Perception of Technology Use (Aligned with Research Question 4)

S/N	Statement	Strongly Agree (SA)	Agree (A)	Disagree (D)	Strongly Disagree (SD)
11	I am more engaged when technology is used in chemistry class.				
12	I am motivated to study chemistry when learning with digital tools.				
13	I prefer technology-based instruction over traditional methods.				
14	I feel confident using digital tools for learning chemistry.				
15	Technology makes chemistry more fun and interesting to learn.				

Section E: Challenges in Technology-Integrated Learning

(Aligned with Research Question 5)

S/N	Statement	Strongly Agree (SA)	Agree (A)	Disagree (D)	Strongly Disagree (SD)
16	Poor internet access limits my ability to learn with technology.				
17	Lack of digital devices (e.g., computer, tablet, phone) affects my learning.				
18	Sometimes I don't understand how to use the technology tools in class.				
19	My teacher faces challenges using digital tools effectively.				
20	Electricity problems affect the use of technology in our school.				

Thank you for your time and honest responses. Your input is important for this study. All information will be kept confidential.