EXAMPLE 1

Step	Response
1. Identify your area of interest	Renewable energy
2. Identify a specific problem (s) (by listing them down) within your area of interest. This should be real and researchable i.e. it is possible to collect data about and it is serious problem worth of investigation	1. ***Low adoption of solar photovoltaic (PV) systems in rural communities*** 2. High initial investment costs for renewable energy technologies 3. Limited grid integration of renewable energy 4. Poor maintenance and sustainability of installed systems 5. Lack of awareness and technical knowledge among users
3. Identify the possible causes of the problems mentioned above	1. ***Limited financial resources and lack of credit facilities*** 2. Inadequate government subsidies and incentives 3. Poor technical capacity for installation and maintenance 4. Weak policy implementation and regulatory frameworks 5. Low awareness and misinformation about renewable energy benefits
4. Select one problem out of many problems	**Low adoption of solar photovoltaic systems in rural communities**
5. Select one cause out of many causes	**Limited financial resources and lack of credit facilities**
6. Link the cause to the problem and create a statement	Limited access to credit facilities hinders the adoption of solar photovoltaic systems in rural communities.
7. Define your statement in (6) above by reviewing negative or biased or waste words	Access to credit facilities influences the adoption of solar photovoltaic systems in rural communities.
8. Modify your statement further by adding the context (study area, location and unit of analysis-subjects)	**Access to credit facilities and adoption of solar photovoltaic systems among rural households in Uganda**
9. Evaluate the title in (8) above i.e check if it has the three characteristics of a research title (i) Variables-independent (IV) and dependent variables (DV) (ii) Context (iii) Unit of analysis	(i) **Variables:** Independent variable – access to credit facilities; Dependent variable – adoption of solar PV systems. (ii) **Context:** Uganda (rural communities). (iii) **Unit of analysis:** Rural households.

Limited and hinders *are both waste words, remove them*

Variables *are measurable characteristics of the study*

Context *are circumstances or setting in which the study is carried out*

Unit of Analysis *is the entity being studied or analyzed*

EXAMPLE 2

Step	Response
1. Identify your area of interest	Renewable Energy
2. Identify a specific problem(s)	***1. Low efficiency of solar photovoltaic systems under variable climatic conditions*** 2. Technical limitations in integrating solar PV into rural mini-grids 3. Frequent failures due to poor design and lack of standardization 4. Limited lifespan and performance degradation of PV modules in tropical climates 5. Inadequate engineering solutions for energy storage and load management
3. Identify the possible causes of the problems	***1. Suboptimal PV panel designs not adapted to local conditions*** 2. Limited research on material durability in tropical environments 3. Poor engineering designs for hybrid renewable systems 4. Lack of innovative low-cost storage technologies 5. Weak technical capacity in system installation and maintenance
4. Select one problem out of many problems	**Low efficiency of solar photovoltaic systems under variable climatic conditions**
5. Select one cause of many causes	**Suboptimal PV panel designs not adapted to local climatic conditions**
6. Link the cause to the problem and create a statement	Suboptimal PV panel designs hinder the efficiency and performance of solar photovoltaic systems in tropical regions.
7. Define your statement by reviewing negative/biased/waste words	Design optimization of solar photovoltaic panels influences system efficiency in tropical regions.
8. Modify your statement further by adding the context (study area, location, and unit of analysis)	**Design optimization** of **solar photovoltaic panels** for improved efficiency in tropical climatic conditions: A case of Uganda
9. Evaluate the title	(i) **Variables**: Independent – PV panel design optimization; Dependent – system efficiency. (ii) **Context**: Tropical climatic conditions (Uganda). (iii) **Unit of analysis**: Solar PV panels and their performance.