

TANZANIA INCLUSIVE VISION ORGANISATION (TIVO)
“IN PURSUIT FOR INCLUSION”



BLOCK A, PLOT 181 , KILIMANJARO STREET, KIHONDA WARD,
BOX 2421 MOROGORO-TANZANIA.

www.tivo.or.tz

[\(924\) TIVO CHANNEL - YouTube](#)

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+255 769 455 455

Register as TIVO Club Member through www.tivo.or.tz/tivoclub

TIVO CLUB : “PROMOTING 21ST CENTURY SKILLS”

A GUIDE FOR PROJECT BASED LEARNING (PBL):

An Illustration of TIVO Club’s tools to promote 21st century (Page 14 of TIVO Club Booklet accessible on www.tivo.or.tz/tivoclub).



WHAT IS A PROJECT BASED LEARNING (PBL)?

Project based learning is teaching-learning method in which students learn by actively engaging in real-world and personally meaningful projects. Students work on projects that engage them in solving real world problems or describing complex things.

Project exhibitions is an opportunity for students to demonstrate their knowledge and skills by presenting to the public a product which results from their project. Project learning based develops deep content knowledge as well as **critical thinking, collaboration, creativity, and communication skills.**



HOW TO DESIGN A PROJECT MODEL?

1. A Challenging Problem or Question

The project is framed by a meaningful problem to be solved or a question to answer, at the appropriate level of challenge.

2. Sustained Inquiry

Students engage in a rigorous, extended process of posing questions, finding resources and applying information.

3. Authenticity

The project involves learner's real-world context, tasks, tools and impact. The project speaks to personal concerns, interests, and issues in the learner's lives.

4. Student's Voice & Choice

Students make some decisions about the project, including how they work and what they create, and express their own ideas in their own voice.

5. Reflection

Students and teachers reflect on the learning, the effectiveness of their inquiry and project activities, the quality of student work, and obstacles that arise and strategies for overcoming them.

6. Critique & Revision

Students give, receive, and apply feedback to improve their process and products.

7. Public Product

Students make their project work public by sharing it with and explaining or presenting it to people beyond the classroom (exhibition).



ADVANTAGES OF PROJECT BASED LEARNING (PBL)

PBL Pathway	Traditional Instruction
Inquiry and instruction is student-led	Inquiry and instruction is teacher-led
Tends to cover more than 1 discipline	Covers 1 discipline
Learning extends beyond the classroom and has a public audience	Learning stays within the classroom
Students are given voice and choice options in learning process	Teacher dictates student tasks
Students are given a problem to solve	Students are told what they need to know
Typically occurs in groups	Typically occurs individually
Ends with a final public product	Ends with a test

PROJECT BASED LEARNING IDEAS

Wherever you are thinking you do not have an idea, some of project models are proposed here under.

free electricity models
Hydraulic dam Model
mobile phone detector
Accident prevention system
Hand Pump Model
Potato Battery
Heart model
Eye model
Kidney model
Brain model
Ear model
Urinary System model
Oxygen-carbon dioxide model

Blood Circulation model
Lungs Model
Plant cell Model
Animal Cell Model
Respiratory Model
Digestive system Model
DNA Model
air pollution model
factory model
Power Generator Electric model
Solar Panel Alarm Fire model
Windmill model
Simple Solar house model

Wind energy house model
Tortoise Model
Train Model
Deforestation Model
Park model
my school model
Rocket Model
River Model
Mountain model
Energy conservation model
Agriculture model
Transport model
Earth Model

House Model
Farm Model
Volcano Model
Hydraulic project model
Bridge Model
Disaster Management model
ATM model
Bubble machine model
project generator
Cooler project
Zero Gravity Project
Solar Panel Projects
Vacuum cleaner projects
Village hut model



PROJECT BASED LEARNING IDEAS

Wherever you are thinking you do not have an idea, some of project models are proposed here under.

Air pollution model
Water pollution model
Water cycle model
Noise or sound pollution
model
Acid rain model
rainwater harvesting model
photosynthesis model
solar system model Global
warming Model
Zoo Model
Wall clock craft model
respiratory system model

Street light model
water sources model
forest model
insect forest model
Small bar magnets
water turbine model
wave model
transformer model
electric circuit model
wind energy model
day and night model
Water Alarm Model
water turbine model
winter season model

desert model
Solar city model
wind village model
House with fire alarm
Eclipse models
House with garden
street light model
Solar street light model
Automatic Water level
controller model
Drip Irrigation Model
Dam working model
Projector Model
Room Heater Model

Steam power model
Garbage Energy Model
City cleanliness model
Water Filter Model
Magnetic Crane Model
Natural Gas Extraction
Model
Water to Fuel and Fuel to
Water Model
Smart City Model
Airport Model
Communication Model
Electric circuits model

traffic light model
seed germination
working model
greenhouse effect
model
summer season model
Eco house model
Drone Model
Phases of Moon Model
Free energy generator
models
oxygen cycle model
Railway crossing model



SAMPLE MODELS FOR STUDENTS' PROJECTS

[Science exhibition part 1 @kidsvillakindergarten8219 – YouTube](#)

[Paper Lamp Making at Home | Paper Lantern Tutorial Very Easy | DIY Festival decoration Ideas - YouTube](#)

[How to make A Toy Road Roller At home \(science Project for school\) - YouTube](#)

[How to Make a Bike - Amazing DIY Electric Bike - YouTube](#)

[DIY birthday card | Special greeting card for birthday | father's day craft ideas | tutorial – YouTube](#)

[DIY: Pop up Card tutorial: Flower - Pop Up card Mother's Day - 3D - Paper flower – YouTube](#)

[Noun Working Model || English Language Exhibition || Types of nouns || English Grammar #noun #nouns – YouTube](#)

[English project on parts of speech | TLM | art Integrated cbse projects ideas | NEP | grammar – YouTube](#)

[How to decorate project file cover page and border | File decoration ideas | College DIY project file – YouTube](#)

[\(919\) How To Make Mini Flour Mill Form Cardboard at Home! DIY Flour Machine – YouTube](#)

[\(919\) save environment working model | inspire science project | diy | howtofunda | dc motor | solar panel - YouTube](#)

[\(919\) How to make a mini washing machine using cans #tractor #howto #pvc – YouTube](#)

[\(919\) making Mini Bike recycling/#cycle@viratstarHd #bicycle – YouTube](#)

[\(919\) How to make water dispenser at home – YouTube](#)

[\(919\) How to build a Smartphone Projector – YouTube](#)

[\(919\) How to make the FIFA World Cup tournament best player golden ball award #goldenball #fifa #qatar2022 – YouTube](#)

[\(919\) How to make trophy at home | Bottle trophy | Trophy design 2 – YouTube](#)

[62 School Project Ideas | Ereading Worksheets](#)

[40+ Best School Project Ideas for Students to be Creative \(kidzrio.com\)](#)

[50+ STEM activities for any classroom - Primary.pdf](#)

[school project model ideas - Bing images](#)

[SCHool project model ideas HOWTOFUNDA - Bing video](#)

[\(919\) Top 4 Brillantes Proyectos para hacer en Casa con Materiales Básicos – YouTube](#)

[\(919\) Awesome mini concrete mixer using cans - YouTube](#)



TASK

In a group of 3-5 learners, propose a project model, identify required materials, propose time frame for accomplishing your model, choose a teacher mentor for your project, start your project.

SEND

Before you send your concept make sure you have registered as TIVO Club Member through www.tivo.or.tz/tivoclub

Send your **concept note** to TIVO Club headquarters through the following email info@tivo.or.tz then CC to inclusivetanzania@gmail.com. Your concept should be on one page and detailed as follows;

- i. **Title:** Title of the project model
- ii. **Problem:** What problem does your proposed project attempt to solve?
- iii. **Materials required:** List them and tell if all materials are accessible in your premises.
- iv. **Timeframe:** When do you expect your project to start and end?
- v. **Scope:** What can be solved by your project idea/what cannot be solved by your project idea?
- vi. **Participants' Names:** Names of learners involved in the project
- vii. **Mentor Teacher:** Your mentor teacher with his/her contact

NB: Briefly, explain what help do you need from TIVO to have your project model done (this is a part of the concept page).



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