

Maria's Implementation Plan

Directions: Click 1 and 2 in the upper-left corner to hide or reveal the whole implementation plan, or click + or - next to an activity to hide or reveal that activity's associated implementation tasks. Please note: The implementation tasks in the "Students" column help support students in completing these tasks on their own.

Before Project Work

Teacher

Contact parents/community		
Task	To Do	Complete
Send home letter		
Contact classroom in Africa		
Contact engineer		
Contact solar plant		

Set up wiki		
Task	To Do	Complete
Overview		
Resources		
Instructions for setting up group page		

Introduce project scenario		
Task	To Do	Complete
Write handout		

Gauge student needs		
Task	To Do	Complete
Create assessments		
Review student work		
Provide interest survey		

Form project teams		
Task	To Do	Complete
Groups for investigations		
Groups for design/cooker		
Pairs for feedback		
Pairs for shadowplot		
Groups for presentation		

Introduce project expectations and assessments

Students

Week 1

Brainstorm/discuss CFOs		
Task	To Do	Complete
Write CFOs on chart paper		
Create K-W-L-H chart		

Select questions for investigation		
Task	To Do	Complete
Provide sample questions		

Complete project plan		
Task	To Do	Complete
Create project plan template		
Set up peer review groups		

During Project Work

Teacher

Demonstrate cooking egg

Instruct in collaboration and self-management skills

Instruct how to evaluate Web sites and filter information

Review reflections and work, and create lessons as

Monitor group understanding (ongoing)

Conference with groups on progress (ongoing)

Help individuals as needed (ongoing)

Help individuals as needed (ongoing)

Students

Week 2

Hypothesize about necessary features

Explore reflection and absorption concepts

Research solar cooker designs

Reflect in journals and keep track of daily progress

Week 3

Write a paper describing how the design relates to function

Share progress and papers with class, and finalize design

Sketch design and label features

Experiment with heat transfer: radiant, convection, and conduction

Week 4

Build and test cookers

Cook off!

Week 5

Develop wiki or presentation to share information

After Project Work

Teacher

Coordinate volunteers to provide feedback

Set up celebration and sharing

Hold class discussion on Essential and Unit Questions

Wrap up

Reflect on success and areas for improvement

Week 6

Students

Rehearse presentations or finalize products

Share work with community

Reflect on learning

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