# FUTURE "SOLAR" CITYHUB

ES<sup>2</sup>TE<sup>2</sup>AM, LLC

CULTIVATE. CUSTOMIZE. CREATE.

Founder/Principal Global Educator:

MarchLa'Rina Davis, M.Ed/MLSt

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Veteran Science Educator Brigetta Brown, MS



Future "Solar" CityHub
Design Model

Summer 2019 Project 360 S.T.E.A.M Hubs

Workshops Will Provide A **MakerSpace** For Young Scholars To Cultivate, Customize, & Create Solar Powered Building Designs, Solar Powered Box-Cars For Transportation, & Wind **Powered Turbines For** Clean Air Filtration.

PROJECT 360 S.T.E.A.M HUBS ?

**P360 SCIENCE Hub** 

P360 TECHNOLOGY Hub

P360 ENGINEERING Hub

P360 ARTS Hub

**P360 MAKERSPACE Hub** 

### FUTURE SOLAR CITYHUB DESIGN PROCESS

P360 SCIENCE Hub
Solar Powered Storage Box-Car
Transportation Solutions &
Wind Powered Clean Air
Filtration Turbine Solutions

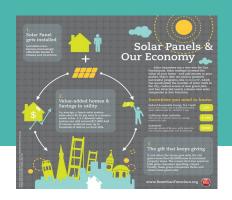
Welcome! Summer
IDEAS Camp Scholars
Project 360 S.T.E.A.M Hubs
Binary Code Activity &
Who Am I? P360DocuVideo

P360 TECHNOLOGY Hub
Creating Binary Name
Codes As A Foundation For
Future "Solar" CityHub
Maze-Grid w/Peer-2-Peer
Programming Game

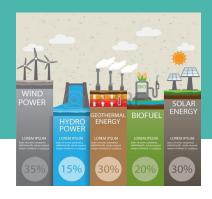
P360 ARTS Hub Sketch Of Drafts & Prototypes For Pair & Share Activity P360 ENGINEERING Hub
Explore The LEGO
Engineering Design
Process & Design Solar
Power Storage Box-Cars &
Wind Turbines

P360 MAKERSPACE Hub
Design Process of
Transforming An 8x11
Cardboard Box
w/Materials Included &
Final Draft Designs &
Prototypes

## FUTURE "SOLAR" CITYHUB CHALLENGE









#### **SOLAR POWER**

POWER OBTAINED BY
HARNESSING THE ENERGY
OF THE SUN RAYS

#### **SOLAR BOX-CARS**

SOLAR CELL PANEL
BOX-CARS MADE OUT OF
CARDBOARD, WOODEN
STICKS, STRAWS, PLASTIC
BOTTLE CAPS

https://youtu.be/jigQ35gQ Tco

#### **WIND POWER**

POWER OBTAINED BY
HARNESSING THE ENERGY
OF THE WIND

#### WIND TURBINES

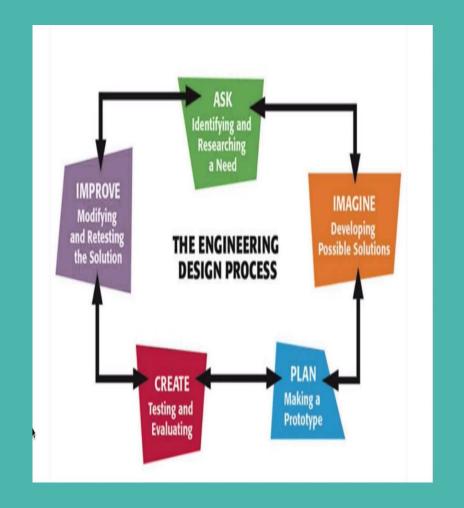
WIND TURBINES MADE
OUT OF CARDBOARD FOR
AIR FILTRATION SYSTEM
https://youtu.be/1dmMPo
TAFgc

THE FUTURE SOLAR CITYHUB GETS
DECREASED AIR POLLUTION BY
GOING COMPLETELY SOLAR

DECREASED AIR POLLUTION BY
HAVING AIR FILTRATION
SYSTEMS AT CITY LEVEL &
RURAL HILLTOP

SOLAR POWERED BOX-CARS TO STORE & DELIVER PEOPLE & GOODS

WIND TURBINES PROVIDE WIND ENERGY & UPPER AIR FILTRATION



# S.T.E.A.M CONCEPT & FUTURE CITY MODEL HYBRID SOLAR CITY & AIR FILTRATION SYSTEM

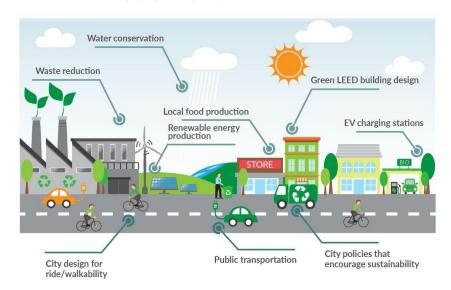
SCHOLARS WILL DESIGN SOLAR POWERED BUILDS, SOLAR CELL PANEL BOX-CARS, & WIND TURBINES DEVICES FOR TAKEAWAYS

PROJECT 360 S.T.E.A.M HUBS WILL BE
MANAGED BY MS. LA'RINA & MS. BROWN
W/DETAILED TIMELINE FOR FINAL WALKING
MUSEUM

PROJECT 360 S.T.E.A.M HUBS WILL RESEARCH
SOLAR & WIND ENERGY AND DESIGN
SUSTAINABLE SOLUTIONS FOR RENEWABLE
ENERGY & CLEAN AIR FILTRATION

#### What Is a Sustainable City?

Sustainable communities are hallmarked by common practices and priorities, which include:



PROJECT 360 S.T.E.A.M HUBS
FUTURE SOLAR CITYHUB SOLUTION BASED
PROGRAM & PROJECTS

#### **EXAMPLE FUTURE SOLAR CITYHUB DESIGN CHALLENGE**

