

# BRINGING BACK THE BLACKSTONE:

## Learning Fair Project

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Teacher Name: \_\_\_\_\_

Student Name: \_\_\_\_\_

### *News Alert:*

Once again *you* have been called upon to help save our environment!

- Can you develop a plan of land in one of the emerging sections of Worcester utilizing currently available technology which minimizes energy use, maximizes the usage of recycled materials, and is pleasing to the eye?

Each student will create a **“Green” Development on their assigned plan and zone of Harding St. in Worcester.**

- Students will have to **research** and follow appropriate **zoning requirements** for commercial, residential, industrial, recreational, cultural zones when considering the **design** and **materials** needed to develop their assigned plan.
- Students must also research and consider the **weathering** patterns for the **terrestrial biome** of Worcester. These patterns will dictate building materials for design and construction.
- How to make it “GREEN”:
  1. Reduce – minimize waste, energy use using renewable materials
  2. Re-use – maximize use of materials already available.
  3. Repair – fix it!
  4. Recycle – turn old and used into something fresh and new!

\*\*Information for all source citations must be attached to the advertisement in the format assigned. Refer to [www.bibme.org](http://www.bibme.org)\*\*

**\*\*Generate a “GREEN PLAN” for your structure to be placed on your presentation board which outlines and addresses all of the requirements noted in the scoring rubric provided on the back of this sheet.\*\***

Useful websites:

<http://www.energyquest.ca.gov/story/index.html>

<http://gogreenwebdirectory.com/index.html>

<http://www.altenergy.org/>

<http://www.alternative-energy-news.info/>

<http://www.alternate-energy-sources.com/>

<http://www.history.rochester.edu/class/SOLAR/SOLAR.html>

<http://saveenergy.about.com/od/alternativeenergysources/a/altenergysource.htm>

Assignment:

***DUE April 30<sup>th</sup>, 2013***

**ATTATCH THIS SHEET TO THE BACK OF YOUR PLAN!!!!**

NAME: \_\_\_\_\_ Learning Fair Project – Spring 2013

**Redesigning Worcester's Blackstone Canal District  
RUBRIC**

CATEGORY	4	3	2	1
<b>Renewable Energy Structure:</b>	Plan utilizes currently available technology that is appropriate for the structure, provides a source of renewable energy for the plan, and <b>collects overflow</b> energy to be distributed to nearby zones if needed.	Plan development utilizes currently available technology that is appropriate for the plan, and provides a source of renewable energy for the structure.	Plan development utilizes currently available technology that is <b>not</b> appropriate for the plan, but provides renewable energy for the plan.	Plan development poorly utilizes currently available technology, is <b>not</b> appropriate for the plan, and <b>doesn't</b> provide renewable energy for the plan.
<b>Materials Used:</b>	Most/all materials chosen to develop plan are innovative, have been deemed as recycled materials, are energy efficient, are appropriate for climate, and are technologically current.	Some materials chosen to develop plan are innovative, have been deemed as recycled materials, are energy efficient, appropriate for climate, and are technologically current.	1-2 materials chosen to develop plan are innovative, have been deemed as recycled materials or are energy efficient, and are appropriate for climate.	No materials chosen to develop plan, are innovative, have been deemed as recycled materials or are energy efficient, and are appropriate for climate.
<b>Innovation/Originality</b>	Plan correctly utilizes new/innovative forms of technology that are less commonly known to public and increases awareness of this technology.	Plan correctly utilizes new/innovative forms of technology that are less commonly known to public but doesn't increase awareness of this technology.	New/innovative forms of technology are incorrectly utilized as part of plan but increased awareness of this technology is noted.	New/innovative forms of technology are not utilized. Public awareness of "Green" technologies not improved.
<b>Proper Zoning Requirements</b>	Plan satisfies all criteria for selected zone and is clearly stated in PLAN.	Plan to satisfy criteria for selected zone is questionable as stated in PLAN.	Plan satisfies little criteria for selected zone and is NOT clearly stated why in PLAN.	Developed plan does not satisfy any criteria for selected zone.
<b>Justification for proposed plans</b>	Plan exceptionally states and justifies all selections made in regards to technologies and materials used.	Plan adequately states and justifies all selections made in regards to technologies and materials used.	Statements and justifications for technology or materials used lacks depth.	Statements and justifications for technology or materials used are inaccurate.
<b>PLAN Design</b>	The design of the <b>PLAN</b> is exceptionally attractive in terms of design, layout, and neatness.	The design of the <b>PLAN</b> is attractive in terms of design, layout, and neatness.	The design of the <b>PLAN</b> is acceptably attractive, though it may show some flaws in neatness and/or design.	The <b>PLAN</b> is distractingly messy or poorly designed. It is not attractive.
<b>Sources/Citations</b>	Information in all source citations is correct and in MLA format. <b>Minimum of 3 sources.</b>	Information in all source citations is correct but there are errors in formatting. <b>Minimum of 3 sources.</b>	Information in most source citations is correct and there are errors in formatting. <b>Less than 3 sources.</b>	Information in few/no source citations is correct and major errors in formatting. <b>Less than 3 sources.</b>
<b>Perceived Effort</b>	The student appears to have put in <b>exceptional</b> effort, regardless of appearance of Plan.	The student appears to have put in <b>adequate</b> effort, regardless of appearance of Plan.	The student appears to have put in a <b>fair</b> amount of effort, regardless of appearance of Plan, it appears rushed.	The student appears to have put in <b>minimal</b> effort, regardless of appearance of Plan, it appears rushed.

TOTALS:

EC?: 10%

SCORE:

/80

GRADE:

**NO RUBRIC = -5 POINTS!!!**

What is the goal of this project?

What zone do you have?

What do you propose to build?

What renewable Energy Structure(s) do you plan on utilizing for your plan?

Why did you choose this RES for your assigned zone?

What is the cost?

How much energy will it produce?

Is it enough for your plan? For more?

What materials or other features of your plan will make it ecologically friendly?

What makes these ecologically friendly?

Why did you choose these materials?

<b>Structure Aesthetics</b>	The design of the plan is <b>exceptionally</b> attractive in terms of design, layout, and neatness.	The design of the plan is attractive in terms of design, layout, and neatness.	The design of the plan is acceptably attractive, though it may show some flaws in neatness and/or design.	The structure is distractingly messy or poorly designed. It is not attractive.
<b>Structure Originality</b>	The plan design and presentation reflect an <b>exceptional</b> degree of student creativity.	The plan design and presentation reflect some student creativity.	The plan design and presentation reflect little student creativity.	The plan design is not original in any way.