

Purpose & Ideas

- **excite student engagement in actions that conserve resources, and demonstrate the 3R's: reduce, reuse, recycle.**
- **provide models of responsible use of materials and green construction concepts**
- **demonstrate best practice**
- storm water management
- energy use

Actions

- use locally sourced materials when possible
- consider low water requirements in planting choices and locations
- grow food for school use (herbs and greens) & use of native plants to revive local ecosystems
- provide local storm water management with permeable pavers, rain gardens and infiltration swales
- design with consideration for long term maintenance
- develop new models of environmentally responsible design and construction
- provide places for recycling of materials (recycle bins, leaf cages, a compost area)
- develop and use small scale energy sources: bicycle water pump, wind & solar, green roof

Design Checklist

- designer to provide green practices inventory (materials / environmental impact)
- recycled and reused materials - recycled asphalt & concrete for circulation & pathway
- non-toxic materials for all structures, fences & student planting beds
- consider carbon footprint, minimize transport & seek locally sourced materials
- water management - green roof & low water plants
- display applications of appropriate technology
- select and place plants to provide habitat
- practice green storm water & run off water management *cistern + drip irrigation*

Illustrations

reuse of existing asphalt with chip seal

solar heating of water

mulch with locally sourced wood chips (donated from tree services)

solar muscle for season extender

boulder locally sourced



solar panels for power and pumping water



urban meadow, habitat that once established, does not require watering



<http://www.greengridroofs.com/greenroofs.htm>
sample green roof on top of storage shed [w/ under drains to buckets & planting beds]



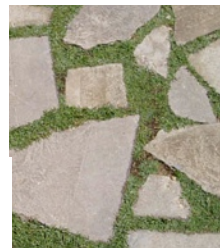
Rain garden, with schoolyard runoff (during construction)



Rain garden, w/ first year planting & wood chips



small machines wind turbines, example of small vertical style



recycled concrete pavement for walkways



green roof (in removable trays)