

The Green Classroom



**Our business is the education
of children—all children**

Success for Every Student,
Montgomery County Public Schools (1992)

Montgomery County Public Schools

- Enrollment: 149,018 students (projected)
- Demographics
 - African American: 21.2%
 - American Indian: 0.2%
 - Asian American: 14.3%
 - Hispanic: 26.0%
 - White: 33.8%

Montgomery County Public Schools

(continued)

- Employees: 21,967
 - Teachers: 11,593
 - 86.9% of teachers have a master's degree or equivalent
- 201 Schools

Montgomery County Public Schools Sustainable Efforts are System-wide

- Office of the Chief Technology Officer
- Department of Materials Management
 - Division of Procurement
 - Division of Food Services
- Department of Transportation

Major **Green** Programs and Initiatives of MCPS

- School Energy and Recycling Team (SERT)
- Recycling
- Automated Energy Management
- Energy Retrofits

Major **Green** Programs and Initiatives of MCPS

(continued)

- Solar Photovoltaic (PV) System Installations
- Green Cleaning
- Construction & Leadership in Energy and Environmental Design (LEED)
- Procurement of Sustainable Products & Services

Office of the Chief Technology Officer

- Recycle computers
- Use of remanufactured printer cartridges

Department of Transportation

- Policies in place to stop excessive bus idling
- Trip planning software in place to maximize bus trips

Department of Materials Management (DMM)

- In Fiscal Year 2012:
 - 4,857 inkjet cartridges were sent to the recycler
 - 3,240 toner cartridges were sent to the recycler
 - 6,480 empty toner bottles from the copy machines were sent to the recycler
 - 18,000 pound of scrap metal sent to the scrap yard
- Large scale shredding was accomplished on site
- Books no longer part of the instructional program were shipped overseas

Department of Materials Management

- **Copy-Plus central document preparation, packaging and delivery service to teachers:**

By offering this service to teachers, they spend less, printing occurs on more energy-efficient machines with less waste.



Department of Materials Management

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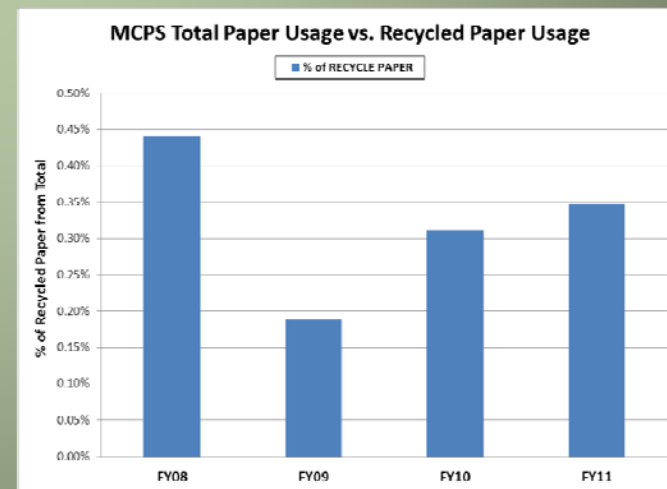
- **TeamWorks copier repair service for schools:**
By providing this as an in-house service to schools, MCPS staff refurbish used machines, repurpose parts from machines retired, and greatly reduce the number of copier machines purchased, and also discarded, on an annual basis.



TEAMWORKS™
COPIER SERVICE

Montgomery County Public Schools/DMM/Division of Procurement

- Require Energy Star appliances where available
- Purchase copier paper with recycled content



Division of Procurement

- Purchase of lighting fixtures that use compact fluorescent lamps
- Purchase remanufactured toner cartridge



Division of Procurement

- Purchase of six hybrid vehicles & one partial zero emissions vehicle (PZVE) in the past three years



- Purchase student furniture that uses recycled wood, plastic & steel components providing LEED credits to MCPS
- Worked with office supply vendor in reducing trips into the county

DMM/Division of Food and Nutrition Services

- Plastic (recyclable) milk bottles
- Kitchen equipment specified with Energy Star rating
- Garbage disposals have been eliminated

DMM/Division of Food and Nutrition Services

(continued)

- Water-saving sprayer heads
- Green cleaning products and a universal dispensing system approved for use in food service operations
- Continue to look for alternatives to Polystyrene serving trays

Decision Making Tools

- Life Cycle Cost Assessment
- Best Value Assessment
 - Price
 - Embodies one or more of these environmental attributes
 - Less hazardous
 - Conserves energy

MCPS is a Leader in Green Programs and Initiatives

- Supported by Board of Education and County Council
- Professional staff and consultants expert in sustainable practices

Green mandates can present challenges

- Competing agendas with primary mission and between green programs
- Greater first costs and not always economical
- New technologies – bleeding edge vs. leading edge
- Reregulation of electricity will be expensive for MCPS

Questions/Thoughts

[www.greenfestivals.org/updates/
fords-commitment-to-sustainable-
vehicle-development](http://www.greenfestivals.org/updates/fords-commitment-to-sustainable-vehicle-development)

DON'T FORGET TO TURN OUT THE LIGHTS!

