**BIOTECHNOLOGY**

**DNA Paternity Testing (7th/8th Grade)**
Through the use of biotechnology assessment tools, students will determine the paternity of a child. Students will use various biotechnology tools such as micropipettes and gel electrophoresis throughout this hands-on lab. Students will make their own gels and practice micro pipetting techniques prior to conducting the lab.

**Gene Expression Lab (9th/10th Grade)**
Throughout the hands-on lab, students will use biotechnology tools to isolate, amplify, and test their own DNA to determine if they have the gene for tasting a specific chemical. Students will learn about genetics including heredity, genotypes, phenotype isolation, Enzyme interactions, PCR (polymerase chain reaction), Gel Electrophoresis, and DNA Staining.

**ENGINEERING**

**Technical Drafting**
Students will explore technology through computer automated design (CAD) software through demonstration and guided “hands-on” experience. Students will also learn how to convert blueprint designs using CAD software into annotated two-dimensional figures. Students will be introduced to a Inventor 3D software program to create 3D models and renderings. Additionally, animation examples will be presented in class demonstrating the capability of Inventor 3D software.

**Manual Machining**
The manual machining camp will provide attendees with a hands-on experience with tools, machines, and equipment used throughout the Manufacturing and Engineering industry. Students will be introduced to precision measurement and machine operations, along with safety practices. Upon completion, students will work with many of the tools used in a variety of STEM fields.

**MACHINE PROCESSING**

**INFORMATION TECHNOLOGY**

**IT**
Discover how fascinating Information Technology can be with hands-on projects in computer graphics, web development, and computer support. Students will build a working computer, learn how to edit and enhance photos and images, and create a multimedia web site. Projects are designed to be easy and fun.
REGISTRATION
Detach registration form and return to LakeView office no later than 06/7/2013

__________________________________________
Name
__________________________________________
Address

CIRCLE ONE
GIRLS ONLY 7th/8th Grade, 7/22 - 7/25
GIRLS ONLY 9th/10th Grade, 7/15 - 7/18
BOYS ONLY 7th Grade, 7/29 - 8/1

Parent/Guardian Permission
I __________________________ hereby give my approval and permission for "_________________________" to attend the 2013 Summer STEM Camp and to participate in the scheduled fieldtrips.

X __________________________
Signature
Date:________________________

SCHEDULE

9:00 A.M. to 12:00 P.M.
Engineering, BioTech, Machine Processing, or Information Technology

12:00 P.M. to 12:30 P.M.
FREE LUNCH!

12:30 P.M. to 3:00 P.M.
Field Trip

Drop-off and pick-up at LakeView Technology Academy
9449 88th Avenue
Pleasant Prairie, WI 53158
262-359-8155

CAMP DATES

GIRLS ONLY
7th and 8th Grade Camp
7/22/13 to 7/25/13
9:00 A.M. to 3:00 P.M.
Lunch is provided

9th and 10th Grade Camp
7/15/13 to 7/18/13
9:00 A.M. to 3:00 P.M.
Lunch is provided

BOYS ONLY
7th Grade Camp
7/29/13 to 8/1/13
9:00 A.M. to 3:00 P.M.
Lunch is provided

2013 FREE S.T.E.M. CAMP
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