

SCIENCE EXPLORATIONS 2008

FACULTY OF SCIENCE AND ENGINEERING



WEEKLY SCHEDULE AND TIMESHEET

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-9:00 am	Drop Off at York Morning Activities Ice Breakers	Drop Off at York Morning Activities Ice Breakers	Drop Off at York Morning Activities Ice Breakers	Drop Off at York Morning Activities Ice Breakers	Drop Off at York Morning Activities Ice Breakers
9:00-9:45am	CRAZY CHEMISTRY I 1. OOZING OIL- DECIPHER LAVA LAMPS 2. STRANGE FLOWING ROCK EXAMINE PROPERTIES OF MATTER	SHINING WITH STATIC ELECTRICITY 1. FLASH DANCERS 2. ELECTROSTATIC FLOWER 3. LIGHTING BULB WITH BALLOON 4. BENDING WATER 5. STICKY BALLOON	MAGIC MICROSCOPE MICROBIOLOGY OBSERVE COLLECTED SAMPLES (POND WATER) THEME: SEARCH FOR LIFE Note: Check Celery stalk	BLENDING BIOLOGY- GENERAL GENETICS DNA EXTRACTION FROM STRAWBERRY CELLS (OCTOPLOID)	ENCHANTING ENVIRONMENTAL SCIENCE AND ENGINEERING BUILD A MINI GREENHOUSE OUTDOOR ACTIVITY BY THE YORK FOUNTAIN
9:45-10:30am	ALCHEMY 1. INCREDIBLE INVISIBLE INK AND SECRET CODES 2. CAULDRON CHEMISTRY SOFT SHELLED EGGS	PHANTASTIC PHYSICS VOLDEMORT VAN DER GRAFF GENERATOR 1. ALIEN SAUCERS 2. POPCORNS 3. FUR ANIMALS ALIVE 4. SABRE POWER 5. LIGHTNING ROD 6. HORRIFYING HAIR	NATURAL SCIENCES/WEATHER (NATURAL HAZARDS/DISASTERS) 1. TORNADO TWISTER 2. CLOUDS IN A BOTTLE	DIVERSITY OF LIFE ON EARTH PROJECTOR: CLIPS/VIDEOS Note: Time permitting (If finished DNA extraction early	INTRODUCTION TO SOLAR ENERGY MODERN SOLAR TECHNOLOGY-SOLAR PANEL AND CARS
10:30-10:45am	Break & Snack	Break & Snack	Break & Snack	Break & Snack	Break & Snack
10:45-12:00pm	AMAZING ASTRONOMY STARGAZING-TWINKLING STARLIGHT IN A BOWL KEPLER MISSION CERTIFICATE	FREAKY FORENSICS- CRIME SCENE INVESTIGATION	YORK OBSERVATORY TOUR SUN SPOTS PLANETARY VIDEOS AND CONSTELLATION	BEACH ENGINEERING AND CONSERVATION MANAGEMENT OF BEACH RESORT AND HARBOUR CONSTRUCTION	SOAKED IN SOLAR ENERGY DESIGN AND BUILD A SOLAR OVEN Note: Weather Permitting

12:00-1:00pm	Lunch & Prep	Lunch & Prep	Lunch & Prep	Lunch & Prep	Lunch & Prep
1:00-1:45pm	PHYSICS-OPTICS SPY PINHOLE CAMERA OUTDOOR ACTIVITY (DESIGN CAMERA AND APPLY OUTDOOR)	BIOCHEMISTRY IRON CONTENT IN CEREALS, FRUITS AND VEGETABLES	GEOLOGICAL SC. SHOOTING VOLCANO ERUPTION /LAVA FLOW VOLCANO	SOAP ENGINE SOAP-POWERED BOAT DESIGN BIOCHEMISTRY DIGESTIVE SYSTEM- ACIDS AND BASES (NEUTRALIZATION/ HEALTHY DIET)	PHUN PHYSICS 1. WATTS ON YOUR MIND-THE POWER OF POTATOES
1:45-2:30pm	PLANT BIOLOGY PLANT CIRCULATORY SYSTEM-XYLEM & PHLOEM COLOURFUL CELERY STALK	COOL CHEMISTRY CRYSTALLIZATION- MATTER IN THREE STATES ROCK SUGAR CRYSTALS OR CAVE ICICLES (OBSERVED OVER THE WEEK)	PHYSICS IN THE AIR PARACHUTE-SOFT LANDING DOES SIZE MATTER?		POWERFUL PHYSICS ROCKIN' ROCKETS
2:30-2:45pm	Break & Snack	Break & Snack	Break & Snack	Break & Snack	Break & Snack
2:45-4:00pm	ENERGETIC ENGINEERING CRAZY COASTER-A TRACK FOR MARBLES (MARBLE MADNESS) NOTE: OBSERVE SOFT SHELLED EGG AND REMOVE FROM CONTAINER AND LEAVE IT ON TABLE FOR OBSERVATION THE NEXT DAY	FUN ENGINEERING MARSHMALLOW + TOOTHPICKS= BRIDGE	SUPER STURDY ENGINEERING TOWER OF POWER CHALLENGE DESIGN A STRUCTURE THAT CAN WITHSTAND EARTHQUAKE	CRAZY CHEMISTRY II KRAZY KOLOURED KLIP- COPPERPLATING A PAPER CLIP FOLLOW- UP/OBSERVATIONS ON OTHER EXPERIMENTS	JEOPARDY CHALLENGE QUIZ YOUR KNOWLEDGE END OF WEEK PARTY!
4:00-5:00 pm	Pick-up at York	Pick-up at York	Pick-up at York	Pick-up at York	Pick-up at York