



## In the Discovery Dome Theatre

**Grades 4, 6**

### Tropical Rainforest

**CURRICULUM CONNECTIONS:** Grade 4 Plant and Growth Changes Grade 6 Trees & Forest

Fly through the rainforest as it evolves from 60 million years ago to present day! This diverse, ever-changing and delicately balanced ecosystem relies on trees to persist. Learn about tree efficiency and why trees are essential to our lives. Meet scientists and learn about the fascinating ways they conduct their research. Duration: 41 minutes

**Grade 4 – Recently Refurbished**

### Dr. Fantastic's Sound and Light Show

**CURRICULUM CONNECTION:** Light & Shadows

Dr. Fantastic presents an enlightening show investigating sources of light, how shadows occur, transparent and opaque materials, reflection, refraction and optical devices. Duration: 35 minutes

**Grade 5**

### Forces of Nature

**CURRICULUM CONNECTION:** Weather Watch

After students learn how weather is monitored, take in this educational film to discover how real scientists monitor and research extreme weather around the world. Experience volcanic eruptions on the island of Montserrat, trembling fault lines in Turkey and storms ripping through the notorious 'Tornado Alley' of America's Midwest. The scientists in this National Geographic presentation risk their own lives to understand these forces in order to increase our odds of surviving them. Duration: 40 minutes

*Watch for new Teacher Resource Guides, available in January 2009 to further complement our films and your curriculum needs. Available at [www.calgaryscience.ca/educators](http://www.calgaryscience.ca/educators)*

**Grade 6 - NEW!**

### Sky Science Day – for Grade 6 only!

**CURRICULUM CONNECTIONS:** Sky Science, Language Arts mythology Social Studies ancient civilizations and Blackfoot culture

TELUS World of Science is thrilled to present a day-long astronomy experience with our knowledgeable and passionate staff! This program includes two LIVE sessions in the Discovery Dome Theatre covering the Sky Science unit, as well as constellation mythology from Greek and Blackfoot cultures. Hands-on classroom activities will round out the day. Cement those Sky Science concepts before provincial exams! *Select Wednesday and Thursday dates available for booking – see calendar insert for dates.*

*Program runs from 9:45 a.m. – 2:00 p.m.*

## In our classroom spaces

**Grade 4**

### Solar Car Builders

**CURRICULUM CONNECTIONS:** Waste & Our World, Building Devices and Vehicles That Move

This workshop will take students into an exciting adventure of engineering and energy. Students will help to define energy and identify energy sources and their real world impacts. Students will use various LEGO pieces to construct their own solar car and then put their creations to the test! Duration: 1.5 hours



**Grade 4**

### Shadow Puppet Production

**MULTI- CURRICULAR CONNECTIONS:** **Visual Art:** Appreciation, Craftsmanship and Media & Technique, **Drama:** Playwriting, Dramatic Movement, Acting and Puppetry, **Science:** Rudimentary Waste in Our World and Light & Shadow, **Language Arts:** Creative Writing

This workshop provides students with an opportunity to make shadow puppets, write scripts and produce a play. Working as a team, students will explore some of the intriguing principles of light and shadow. Making puppets encourages design skills and technical 'know-how'. Combining the question "where in the world does our waste go?" with inspiration from the story of "Ed the Duck's dramatic rescue", this grade 4 workshop promises lots of fun and learning. Duration: 1.5 hours

**Grade 5**

**Imagining with Masks**

**CURRICULUM CONNECTIONS:** **Visual Art:** Appreciation, Craftsmanship and Media & Technique, **Drama:** Dramatic Movement and Mime, **Science:** General Problem Solving, Exploration and Investigation, **Language Arts:** small amount of documentary style creative writing

This workshop challenges students to think like Leonardo da Vinci by blending scientific reasoning with creative expression. Four hundred years beyond our time, what creatures will exist? How will technology advance? What obstacles will human beings overcome? Exploring, investigating and questioning are keys to designing a creature of the future. Students will compose a brief encyclopedia entry before building a 3D paper sculpture mask. They will learn the basics of wearing a mask in drama and bring their creatures to life with a movement performance onstage in the Creative Kids Museum.  
Duration: 2 hours

**Grade 5 – NEW!**

**Ecstatic 4 Electricity**

**CURRICULUM CONNECTION:** Electricity and Magnetism

Can miniscule electrons really power a TV, create a bolt of lightning, and make your hair stand on end? This electrifying workshop will charge up your students understanding of electricity through the creation of electric circuits and exploration of the different forms of electricity!  
Duration: 1 hour



**Grade 6 – NEW!**

**The Heat is On: Politics and Art**

**MULTI-CURRICULAR CONNECTIONS:** **Social Studies:** Citizens participating in Decision Making and Communications – Debate (New curriculum), **Visual Art:** Media and Techniques

Artists often access pop culture symbols such as logos and reconfigure them into political symbols. Is this an infringement of copyright law or one of the democratic freedoms protected in the Canadian Charter of Rights and Freedoms? Referencing current media stories, this workshop begins the hot debate on one of the many areas for collision between art and politics. The student's 'hot art' medium will be encaustic\* painting – essentially painting with molten wax – an intriguing and rewarding technique that dates back to



Ancient Egypt. Their art pieces will relate to the issues of citizen rights and responsibility, justice, equality, democracy, value and the role of government discussed earlier in the workshop.  
Duration: 1.5 hours

\* This technique involves hot irons, wax and styluses creating a risk of burning; program leaders will ensure students are working safely and require responsible student behavior.

**Grade 6**

**Straight Up!**

**CURRICULUM CONNECTION:** Air & Aerodynamics

Understand the air around you! Air pressure and chemical composition, basic aerodynamic principles and adaptations which enable living things to fly are highlighted in this hands-on, interactive workshop. Students will complete a variety of air-based experiments in an effort to understand how and why air is a vital part of our everyday life.  
Duration: 1 hour

**Grade 6**

**Greek Theatre On Stage**

**MULTI-CURRICULAR CONNECTIONS:** **Drama:** Choral Speech, Group Drama, **Language Arts:** Responding to Myths, **Social Studies:** Greece: An Ancient Civilization

Students will have fun with costumes and props, bringing the highlights of Greek legends – Persephone, Icarus and Midas to life in this theater based program. Throughout the program, Greek culture, government and influence on Western civilization will be discussed. The students develop confidence in active and proactive teamwork as they stage their scenes in our fully equipped theatre!  
Duration: 2 hours

**In our Demonstration Theatre**

**Grades 3, 4**

**Working It Out! – Live Presentation**

**CURRICULUM CONNECTIONS:** Grade 3 Building with a Variety of Material Grade 4 Wheels & Levers, Building Devices and Vehicles that Move

It's the taping of Great Gregor's All-Purpose Fitness and Cooking Show and your class is the studio audience. Students will learn about rollers, wheels, levers, pulleys and gears as the Great Gregor demonstrates how simple machines can make you strong. Working out has never been so much fun!  
Duration: 20 minutes

**Grade 5 – NEW!**

**Crash, Bang, BOOM! – Live Presentation**

**CURRICULUM CONNECTION:** Classroom Chemistry

This new science demonstration will get your students excited about chemistry. Program in development at time of printing. Please visit [www.calgaryscience.ca/educators](http://www.calgaryscience.ca/educators) for more information.  
Duration: 20 minutes