

GRADES 8-12 ACTIVITIES AND IDEAS

	ACTIVITY	DESCRIPTION
Community Event Ideas	Explore Maker Culture	The maker culture is a contemporary culture or subculture representing a technology-based extension of DIY culture . Typical interests enjoyed by the maker culture include engineering-oriented pursuits such as electronics , robotics , 3-D printing , and the use of CNC tools, as well as more traditional activities such as metalworking , woodworking , and traditional arts and crafts . The subculture stresses new and unique applications of technologies , and encourages invention and prototyping. ^[1] There is a strong focus on using and learning practical skills and applying them creatively.
	Maker Days Maker Day Tool Kit	Students will: <ul style="list-style-type: none"> • Meet, interact, and converse with individual Makers, who are sharing their unique passions • Become exposed to all areas of the applied skills subject areas that all involve making • Experience a live performance or demonstration • Engage in a hands-on project or activity, resulting in a product to take home • Work on a collaborative project or share experiences with other students, teachers, chaperones, Makers, or members of the community • Become exposed to, and feel welcomed and supported in, the Maker community • Be inspired with at least one new idea to try at home or in school Also see ITA, under Miscellaneous
	Fashion Machine See Project Description and TourRider and fees	Contact: Jenny Ambrose, Owner, The Makehouse jenny@themakehouse.ca
	MakerKids	A resource for introducing Maker culture into the elementary grades
	New York Hall of Science, A Blueprint: Maker Programs for Youth http://dmp.nysci.org/system/files/filedepot/1/NYSCI_MAKER_BLUEPRINT.pdf	An excellent source of ideas on how to develop a school based Maker program or event.
	Do-it-Yourself (DYI) days	DYI Days is where the accessibility of ideas, resources and networking can enable creators to fund, create, distribute and sustain.
	Outreach Pro-D (regional business)	School District contact local/regional businesses to collaborate on an activity.

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Miscellaneous Ideas	ACE-IT and SSA awareness activity delivered by the School Career Coordinator	The Accelerated Credit Enrolment in Industry Training (ACE IT) program is the in-class component of a high school apprenticeship. This program is where the classroom portion of an apprenticeship takes place. SSA students are registered Youth Apprentices. Most ACE IT programs are partnerships between school districts and post-secondary institutions. SSA programs provide students with paid employment or opportunities.
	CES annual meeting in Vancouver (Fall)	The CES Career Education Society is a BC based, non-profit organization of people in education, business, industry, labour, government and private organizations who work together to champion career and learning management as an essential life skill.
	Develop similar programs as “ Heavy Metal Rocks ” (Prince George , Kamloops)	High school students have the chance to get close to heavy equipment, learn about construction, and pick up valuable lessons about workplace safety. (WorkSafeBC)
	Discover Trades	Educator materials (including Blackline Masters for customization) are available here for Grades 8 & 9 Contact: info@discovertradesbc.ca
	Create a “ Yes-2-IT Day ” (K-8 focus)	Contact: Lisa Ayton ITA Layton@itabc.ca
	District Career Coordinators facilitate school conversations around curriculum	Contact your school district Career Coordinator.
	GIS Day (November 20, 2013) Note: there will be a reference, tips, lessons url avail late Aug	Learning about GIS helps develop geo-literacy, an understanding of the places we live and how they relate to the rest of the world. In fact, GIS Day is part of Geography Awareness Week , an initiative sponsored by the National Geographic Society to spread geographic literacy. There will be hundreds of GIS Day events held in dozens of countries around the world. Ensuring young people in B.C. have the opportunity to participate and to become data and geo-literate is something we should all strive for. Contact: Brent Hall, Director of Education and Research ESRI Canada bhall@esri.ca

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Miscellaneous Ideas	<p>Yes2IT Participation</p> <ul style="list-style-type: none"> YES 2 IT (Youth Exploring Skills to Industry Training) is a joint initiative between ITA and the Ministry of Education. It is funding for projects designed to increase awareness of the trades. It targets younger students (grades 6-9), as well as their parents, employers, educators and communities. 	<p>Contact: Lisa Ayton ITA Layton@itabc.ca</p>
	<p>Do-it-Yourself (DIY) days</p>	<p>DIY Days is where the accessibility of ideas, resources and networking can enable creators to fund, create, distribute and sustain.</p>
	<p>ITA (Industry Training and Authority) Youth Day – November 20, 2013</p>	<p>This annual event allows schools to discuss and showcase their experiences with ITA’s trades, training programs for young people.</p> <p>Contact: Erin Johnson, Manager, Labour Supply Initiatives ejohnston@itabc.ca</p>
	<p>Trade Sampler Orientation for teachers</p>	<p>Contact: Glenn Rowan, Education Officer Ministry of Education Glenn.Rowan@gov.bc.ca</p>
	<p>Public Libraries sponsored “Hackathon”</p>	<p>Contact: Heather Daly, President BC Teacher-Librarians' Association psac49@bctf.ca</p> <p>Ministry of Education and Citizens Services collaborated to develop a hackathon toolkit aimed at schools, teachers and students who are involved in learning to use code to re-work available data into useful apps or informative products. This is a chance for public libraries and educators in communities to collaborate and enhance Data Literacy skills for students. These skills have a growing value for young people, once they get past the basics of coding. In some parts of the world, local libraries are being used as creative digital hacker spaces.</p>

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<p>Miscellaneous Ideas</p>	<p>Regional presentations by Post Secondary Institution about “what’s available”</p>	<p>School District collaborate on an activity/presentation with PSI</p>
	<p>WorldHost Training Services, Destination British Columbia, Ministry of Jobs, Tourism and Skills Training</p> <ul style="list-style-type: none"> Professional customer service has become a competitive advantage in the business world of today, for both business and individuals who want to distinguish themselves and succeed in the workplace. 	<p>WorldHost® Training Services was launched as the SuperHost program in 1985. Since then, the program has expanded and rebranded to become an internationally recognized leader in customer service training. Classroom led and online training options are now available.</p> <p>Contact us for your Non-Instructional Day to conduct a one-day WorldHost Fundamentals Train-the-Trainer workshop for teachers in your School District to deliver WorldHost training. This session can also be attended by students to receive their WorldHost certification.</p> <p>The Train-the-Trainer program is only available for BC certified Teachers.</p> <p>Benefits:</p> <ul style="list-style-type: none"> Obtain trainer certification to offer WorldHost training to students throughout the school year Provide students with valuable soft skills and an industry recognized credential Receive a Trainer’s Guide with detailed instructions and associated resources to effectively deliver WorldHost training Join a network of educators dedicated to world-class customer service and receive program updates and ideas to enhance training delivery <p>Contact: Rhonda Teel, WorldHost Network Coordinator WorldHost@gov.bc.ca (250) 387-1711</p>

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Workshop Ideas	<p>WorkSafeBC</p> <ul style="list-style-type: none"> Young workers face a significant risk of being injured at work when they are young (and often still in school) and it is important that they learn about workplace hazards and their rights and responsibilities so they can avoid injury – while in school, while taking trades and apprenticeship training, and beyond school into the workplace. WorkSafeBC provides free resources to teachers which includes their Apprenticeship Portal, which aligns health and safety resources (print, video, and more) to curriculum in technology education and SSA/ACE IT programs, in Planning 10, in other curriculum areas where occupational health and safety is a component, and in work experience and career programs where knowledge of workplace hazards, workers’ rights to training and orientation and refusal of unsafe work is vital in helping youth to achieve and excel. 	<p>Free teacher workshops include:</p> <ul style="list-style-type: none"> The new and expanded version of “Student WorkSafe (part of Planning 10) Resources available for teachers and students to support workplace health and safety (including the popular Apprenticeship Portal) WorkSafeBC’s social media presence and how it can be used in the classroom (focusing on new health and safety apps, interactive eBooks for use in the classroom, along with their extensive library of videos that are available Raising awareness of hazards facing youth and to ensure teachers are aware of the tools/resources at their disposal to teach health and safety in the classroom Injured young worker speakers talk to students & teachers about their personal experiences with a life-changing injury <p>See attached pdf “WorkSafeBC Resources” for a listing of available resources</p> <p>Contact: Robin Schooley, Industry Specialist Young and Vulnerable Worker Program robin.schooley@worksafebc.com</p>
	<p>Information and Communications Technology Council (ICT)</p>	<p>Tracy Biernacki-Dusza t.bienacki-dusza@ictc-ctic.ca</p> <p>Deb Vance d.vance@ictc-ctic.ca</p>
	<p>Mining Association of BC</p>	<p>MineralsEd is the action area for teachers to connect to the mining industry</p> <p>Every year, MineralsEd works with school districts and teachers' associations to present instructional workshops for teachers on their pro-d days. Workshops can be held anywhere in BC on a Pro-D day, during a PSA or other conference.</p> <p>MineralsEd Workshop Schedule MineralsEd Teacher Pro D & Support</p>

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<p>Workshops/Skill Development Ideas</p>	<p>MOBILE MAKEHOUSE - MAKE * CREATE * FABRICATE</p> <ul style="list-style-type: none"> All activities can be tailored to suit age and ability 	<p>MOBILE MAKEHOUSE is designed to inspire and educate young people about the world of design, sewing and fashion. This new initiative is brought to you by Jenny Ambrose (founder of The Makehouse) and her army of makers. Jenny brings nearly 15 years of sewing experience through many angles of the fashion industry including design, alterations/tailoring, manufacturing, wholesale, retail, fashion shows, photo-shoots, teaching / mentoring and marketing / PR. The following presentations and workshops can be tailored to suit different timeframes and age groups. Jenny is able to bring portable sewing machines out to schools that do not have a sewing room.</p> <p>ECO-FASHION - Learn the dark and bright sides of the fashion industry in a workshop designed to get you thinking about where and how clothing is made. Students bring in pieces of clothing from home (that they no longer wear) to be upcycled (re-cut designed & styled) in a hands on workshop.</p> <ul style="list-style-type: none"> Schools may go a step further and participate in FASHION MACHINE See Project Description and TourRider or a live upcycling challenge - students vs students or students vs teachers <p>CREATIVE ENTREPRENEURSHIP - Learn about the journey through self-employment and the reasons why so many people are choosing to work for themselves. Follow the journey of a young designer's dream to set up a fashion label with big ideas and limited funding. This workshop gets students thinking about what kind of business they might set up, what the challenges might be and how they might get started.</p> <p>MAKE DO AND MEND - Why do we send so much clothing to landfill? Whatever happened to making long lasting clothing and repairing pieces we care about? Learn about the importance of quality. Students bring clothing from home to mend, hem or repair in a hands-on workshop.</p>

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<p>Workshops/Skill Development Ideas</p>	<p>MOBILE MAKEHOUSE - MAKE * CREATE * FABRICATE (Continued)</p> <ul style="list-style-type: none"> All activities can be tailored to suit age and ability 	<p>MAKE ME - I-Phone cases, makeup bags, doll making, sock pets, needle-felting creatures or accessories, pin cushions, tote bags, hair fascinators, headbands, fabric corsages, jewellery, bunting (fabric garland), fabric painting, neck tie or bow tie, cushions, selected underwear, swimwear & clothing.</p> <p>MAKE SEASONAL (includes, but not limited to)</p> <ul style="list-style-type: none"> <u>Halloween</u>: costumes making, mask making <u>Christmas</u>: stockings, winter warmers, holiday bunting, wall hangings, needle felt Santas <u>Valentine's Day</u>: heart-shaped pillow, fuzzy needlefelt hearts, heart printing <u>Mother's Day</u>: make-up bags, personalized cushions, wrist pin cushions, sewing kits, aprons <u>Father's Day</u>: neck bow tie or tie, BBQ aprons <p>MOOD BOARDS - Students dip their toes in creating mood boards for fashion (the early part of many designers creative process) through drawing, writing, collage, mini sample making & photography.</p> <p>FASHION SHOOT - Students get the chance to work on a fashion shoot (with a professional photographer) in teams made up entirely of students apart from the photographer. Each team will require a model, makeup artist, hair stylist, wardrobe stylist, assistants & creative director.</p> <p>Contact: Jenny Ambrose, Owner, The Makehouse jenny@themakehouse.ca The Makehouse Tweets The Makehouse Facebook</p>

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Workshop/Skill Development Ideas	BCIT Aerospace , Richmond BC (financial planning)	Lenalda Sutherland Assistant to the Associate Dean Aerospace Technology Campus Lindsey_Zikakis@bcit.ca
	Trades & technology training discussion with local Post Secondary Institution	Trades Training BC is a consortium of 14 public post-secondary educational institutions created to promote trades training in British Columbia http://www.tradetrainingbc.ca/about
	Skills Canada BC	Can assist with presentations to teachers and/or offering teachers the opportunity to attend a Skills Canada BC Regional and/or Provincial competition Contact Amber Papou, Executive Director, Skills Canada BC amber@skillscanada.bc.ca / 604-432-4360
	Discover Trades	There are a number of workshops available for Grades 4 to 10 educators that introduce the Trades and how to incorporate this learning into the classroom. See Discover Trades BC Workshops Contact information available on Discover Trades BC Workshops website
	BC Aviation Council	Provide a number of presentations/workshops in the areas of Aviation and Aerospace. Contact: Vanessa Griffiths, Executive Director vgriffiths@bcaviationcouncil.org

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<p>Workshop Ideas</p>	<p>transCDA</p> <ul style="list-style-type: none"> Is the industry training organization responsible for twenty six transportation apprenticeship programs in the four sectors of Aerospace, Construction, Ground and Marine. 	<p>See their repository of high resolution infographics, posters, handouts and postcards http://www.tcda.ca/print-media available for use</p> <p>The info graphics for each sector (e.g. Aerospace) are inter-active and by clicking on the various interactive elements on the info graphic one can view videos and information about career choices and opportunities.</p> <p>transCDA is available as a resource to the school districts, share ideas and participate in workshop activities as time and resources permit. They currently collaborate with school districts to provide coaching for students and encourage participation in the SSA and ACE-IT programs in transportation trades. As well, they conduct attribute assessments (Interest Index, Personality Index, Essential Skills Index) for students on their newly launched assessment site. These assessments are designed to</p> <ul style="list-style-type: none"> help students understand how they would fit in with a career in the transportation trades measure traits, interests and essential skills of a student that are important to the transportation trades identify a student’s strongest characteristics, and learn what skills students could improve. <p>Contact: Rita Gunkel, Director, Strategic Initiatives Transportation Career Development Association rgunkel@tcda.ca / 604.998.4510 (ext 2403)</p>