

Eagle River Secondary is inviting you to participate in our  
**By Invitation Only**

# MAKER DAY 2014

Thursday, March 13<sup>th</sup> from 9:15-3:30pm  
(lunch provided)

We are hosting a district **Maker Day** with help from both the Industry Training Association, and UBC-Okanagan in which we want to have parent and community participation.

Maker Day is a creative building all day event in which students and community members will work through a design process to invent and build an idea they have to solve a problem. Everyone has an opportunity to create something new using tools and materials found in the shop as well as items that are considered "helpful".

As you have specific skills and experience around building and applied knowledge or creativity, we would appreciate your participation and help! You would be working in a small group of 5, with one other adult who will act as the leader.

As this hands-on design and building experience supports the direction of our school goals, we feel it is an important addition to our student's experiences at ERS.

Please contact Scott Anderson or Desiree Marshall-Peer if you have any questions, and **RSVP** ASAP, as we only have limited spaces available.

250-836-2831  
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[dmarshall@sd83.bc.ca](mailto:dmarshall@sd83.bc.ca)

## 5. BUDGET

Provide a projected itemized budget up to a maximum of \$3000.

An invoice with original receipts attached must be submitted following the event and prior to March 20, 2014.

Projected Maker Day Budget Table	
Maker Day Budget Category	Estimated costs
Maker Day Kits (approximately \$25 per kit; 1 kit per 4 person group)	\$475
Pantry of supplemental supplies (refer to Maker Resource Kit)	\$2625
Equipment rental (if applicable)	\$400
Photography and communication costs	\$150
Photocopying Design Thinking materials and Project challenge	\$60
Facilitator costs	\$800
Other: Please specify below	\$1215
<b>Total Requested Budget</b>	<b>\$5725</b>

\*Staffing costs and release time are not eligible expenses.

Please identify any expenses included in 'Other'

Food costs \$900  
travel expenses for ubc and facilitators \$265  
gifting \$200

\*above costs include both Maker Days

## 6. Event Preparation

**Step 1:** Refer to the Maker Day Resource Toolkit to prepare for your event:

<http://blogs.ubc.ca/centre/2013/11/18/maker-day-resource-kit/>.

**Step 2:** Schedule a pre-event training session with the Innovative Learning Center and your Maker Day facilitators.

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## Suggested Use

The following is a list of the basic items provided in the Tool Crib. The quantities supported 15 groups with 4 participants / group. Each group made one prototype project solution to the design challenge.

Prices are estimates only, based on pricing at local stores (December 2013). If you need to reduce the budget, you could prototype using only cardboard and recycled materials, omitting the drills, saws, and PVC pipe from the list.

## Shared Tool Crib

Item	Quantity	Note	Suggested Source	Approximate Cost
First Aid Kit	1	Basic Kit	Access to school First Aid kit	N/C
V Block	5 large	Used to hold 3 – 4" pipe for cutting	Ask a shop teacher to make them	N/C
V Block	5 small	Used to hold up to 1" pipe for cutting	Ask a shop teacher to make them	N/C
Power Drill	2	Cordless electric drill Kit – Approx. \$100 ea	Building supply store	\$200.00
Drill bits	1 package	Small size set to create holes for wire or bolts	Building supply store	\$15.00
Spade bits	3	Sizes to match outside dimension of PVC pipe	Building supply store	\$10.00
Doweling	15 lengths / various thickness	Individual lengths could be pre cut; much cheaper than dowel lengths from hobby stores 1/2 " x 72" = \$5.19 3/4 " x 72 " = \$5.99 1/4 " x 48" = \$1.40	Building supply store	\$61.60
Hack saws	3	Easier to cut with than wood saws	Building supply store	\$29.97
Hack saw blades	3	Fine blades to reduce chipping	Building supply store	\$11.97
Ratchet clamps	5	Used to make cutting safer; use with v block to hold round material \$3.00 ea	Building supply store	\$15.00
PVC (1/2") – 90 degree elbows	15	Used for structural supports / framing	Building supply store	\$8.85
PVC (3/4") – 90 degree elbows	15		Building supply store	\$11.85
PVC (1") – 90 degree	15		Building supply	\$16.35

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Item	Quantity	Note	Suggested Source	Approximate Cost
Elbows			store	
PVC (1/2") – 45 degree elbows	15		Building supply store	\$10.35
PVC (3/4") 45 degree elbows	15		Building supply store	\$17.85
PVC (1") 45 degree elbow	15		Building supply store	\$23.85
PVC (1/2") Tee	15		Building supply store	\$11.85
PVC (3/4") Tee	15		Building supply store	\$11.85
PVC (1") Tee	15		Building supply store	\$22.35
PVC (1/2") Cross	10		Building supply store	\$17.90
PVC (3/4") Cross	10		Building supply store	\$17.90
PVC (1") Cross	10		Building supply store	\$27.90
PVC (1/2") Coupling	15		Building supply store	\$7.35
PVC (3/4") Coupling	15		Building supply store	\$8.85
PVC (1") – Coupling	15		Building supply store	\$19.35
PVC (1/2") – Cap	10		Building supply store	\$4.90
PVC (3/4") – Cap	10		Building supply store	\$6.90
PVC (1") – Cap	10		Building supply store	\$9.90
PVC (1/2" – 3/4") Bushing	5		Building supply store	\$2.95
PVC (1/2" – 1") Bushing	5		Building supply store	\$8.90
PVC (3/4" – 1") Bushing	5		Building supply store	\$5.95
PVC (1/2") pipe	10' x 10 pieces		Building supply store	\$21.90
PVC (3/4") pipe	10' x 10 pieces		Building supply store	\$26.90
PVC (1") pipe	10' x 10 pieces		Building supply store	\$36.90
Vinyl Electrical Tape	3 rolls	Comes in red, yellow and green \$1.49 / roll @ 66 feet / roll	Dollar store	\$4.47

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Item	Quantity	Note	Suggested Source	Approximate Cost
Cord	1 roll	40 feet	Dollar store	\$1.99
Small magnets	Mixture of sizes	Consider sheets of magnets that can be cut	Dollar store	\$1.25
Washers	1 box	Small sizes to match cotter pins	Machine shop	\$2.99
Cotter pins	1 box	Small box of mixed sized pins Package of 144 misc pieces	Princess Auto	\$2.99
Nuts and bolts	1 box	Small box of mixed sized sizes Box of 172 misc size pieces	Princess Auto	\$9.99
Velcro	1 box	Velcro can be cut into appropriate lengths $\frac{3}{4}$ x 66 feet	Princess Auto	\$9.99
Styrofoam	Small pile	Use recycled Styrofoam from packing – used in place of wood	Recycling centre	Free
Cardboard	Small pile	Sheets of various thickness – used in place of wood	Recycling centre or Costco	Free
<b>Approximate Total</b>				<b>\$736.81</b>



## ***SHAPE OF THE DAY***

***THANKS FOR JOINING US TODAY!***

- 9:15 WELCOME***
- 9:20 DESIGN THINKING ~ SUSAN CRICHTON***
- 9:25 GROUPS GATHERING***
- 9:35 STANFORD DESIGN THINKING ACTIVITY***
- 11:15 ISH START PROJECT WORK***
- 12ISH WORKING LUNCH***
- 2:30 CLEAN UP AND REFLECTION ACTIVITY***
- 3:00 GALLERY WALK***
- 3:30 HOME TIME***