

2014/2015 Budget Proposal School District No. 8

February 4, 2014

Presenters: Chris Dergousoff &

Todd Hawton

SD 8 Technology Education Shop Equipment
Replacement Program

Project Description

*Technology Shop Equipment Renewal/Replacement:
Year 4 (Variety of equipment)*

Equipment Purchase - 2011



Band saw



Jointer



Drill Press

Student Testimonial

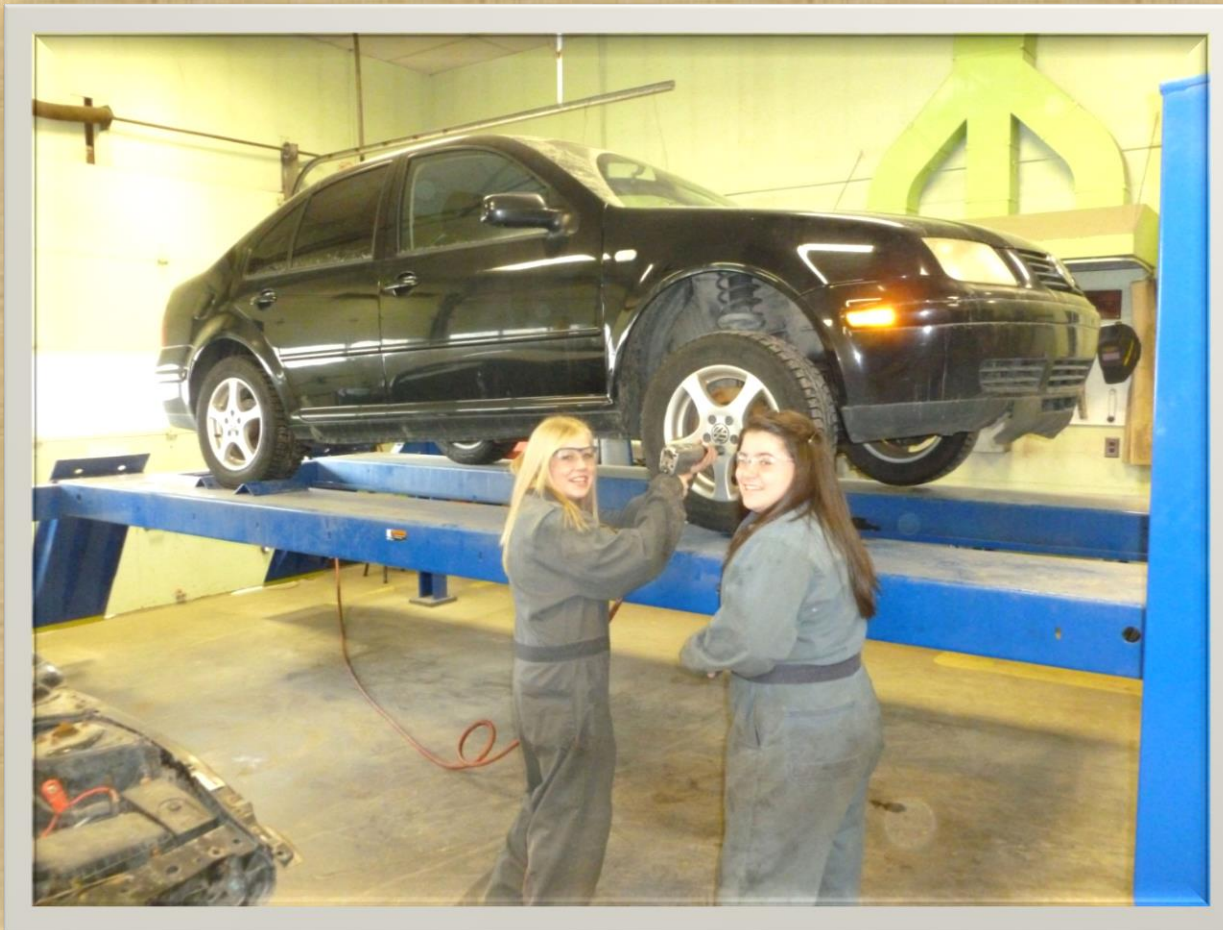


“I would rather do wood shop than any other class. Wood shop teaches me good hand craftsmanship and skills with wood working machines.”

Mickey Draper
French Immersion
Trafalgar Middle School

Equipment Purchase – 2012

Auto Hoist



- Completing tire change over using new auto hoist at PCSS



Equipment Purchase – 2012

Machinist Lathes

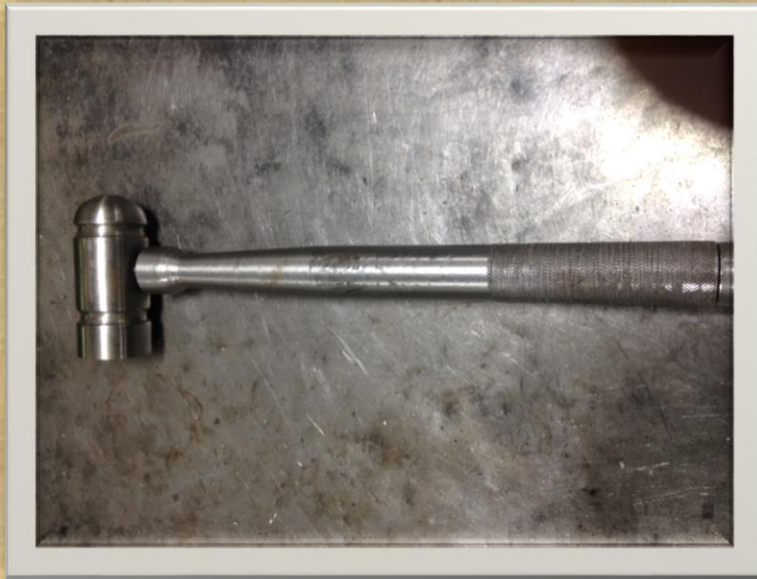
Why the new lathes are better than the old ones:

- Safety reasons
- You can get experience with modern equipment
- They give you much more precise machining
- They give you the opportunity to build more complex projects
- They are easier to work with and control
- You spend less time adjusting, and more time working
- The older equipment was worn out /faulty and didn't work as well and occasionally broke down



*Kail Huber - Grade 11
Metalwork PCSS*

Sample Projects Made on Lathes



Ball Peen Hammer

Threaded Aluminum File Handle



Equipment Purchase- 2013

Thickness Planers

- Teacher demo using the new planer (Grade 8)



Project Category(ies)

- Academic Success
- Infrastructure
- Creativity & Imagination
- Transitions
- Personalized Learning
- Critical Thinking Skills
- Technology to Support
- Other: Trades & Career Options; Learning & Work

Project Length – ongoing

6 years (3 years are complete: 2011, 2012 & 2013)

Goal of the project

- Replace tired, old and worn out equipment in a variety of technology education workshops through out schools in the district
- Improve safety for students and staff using equipment
- Introduce students to experiencing trades as a career option
- Provide all SD8 students the opportunity to work with modern equipment/technology
- Standardizing equipment in shops makes maintenance more time and cost efficient
- Financial savings in bulk purchasing the same make/model of equipment

SD 8 OLD EQUIPMENT

- The new machines are equipment that are constantly used in wood, metal & auto shops
- Old equipment no longer works or has been rebuilt/repaired several times
- Need constant attention and servicing: they are worn out



Goal of the project and student expectations

ACADEMIC SUCCESS

- new equipment will allow for more project completion (less machine downtime due to malfunctions)
- better end results & less material waste as equipment will be more precise and sensitive to reduce inaccuracies.
- foster a greater sense of achievement and opportunities to create more complex projects and better time management/efficiency.

CREATIVITY & IMAGINATION

- more precise work can be achieved with new equipment (eg: plasma cutting)
- open the doors to ALL students to use metal and wood as a medium for projects that encompass creative & innovative practices & design (eg: artistic pieces as well as utilitarian)
- incorporating different programs & skills (eg: Drafting & Wood: design; make & take)

Goal of the project and student expectations

CITIZENSHIP

- increase involvement in school/community projects (eg: LVR greenhouse, PCSS/COTR - ACE IT Carpentry apprenticeship)



RESILIENCY

- continue to breakdown the negative stigma (being second class) often related to shop programs & trades
- students in shop programs are project driven; they become frustrated with setbacks related to equipment malfunctions that are beyond their control
- Students can experience/use current modern technology & equipment found in industry today

Project success – how will you know you succeeded, how will you measure?

- Increase project quality, quantity and complexity
- Growth in student enrollment in shop programs
- Increased awareness in students of trades as a career
- Increased participation of students in SkillsBC competitions
- Reduction of consumables, supply & maintenance costs
- Provides opportunity to create increased enrolment in Tech. Ed. programs

Budget impact – how much will it cost?

SD 8 Technology Education Purchase Year: 2014

Equipment	Model	Cost	Number	Schools	Cost	Year Total
Tire Balancer	JWB502A	\$8000	1	LVR	\$8000	\$8000
Brake Lathe	AMMCO 4000B	\$10500	1	PCSS	\$10500	\$18500
Power Hacksaw	KC-712DS	\$3200	4	LVR, PCSS, JVH, Salmo	\$12800	\$31300
Plasma Cutter	Miller Spectrum 875	\$3500	3	PCSS, LVR, MSSS	\$10500	\$41800
Wood Bandsaw	General 90-125M1	\$1800	5	PCSS(2), Trafalgar, JVH, Salmo	\$9000	\$50800
Compound Miter saw	Dewalt DWS780	\$800	6	PCSS, LVR, Trafalgar, JVH, Salmo, Crawford Bay	\$4800	\$55600
Automotive scan	Autel	\$1900	2	PCSS, LVR	\$3800	\$59400

Goal of the project and how it relates to Board goals

DG1: TRANSPERANCY IN FISCAL ACCOUNTABILITIES

- prepared project presentation, district wide inventory of equipment in shops

DG2: RELATIONSHIP BUILDING

- support for this project provides a sense of value & commitment to tech ed programs in the district
- reduced frustration from waiting for equipment to be repaired

DG3: INCREASED ENGAGEMENT WITH COMMUNITIES

- establish working relationships with groups such as KAST, Selkirk College, College of the Rockies and SkillsBC

DG4: ENHANCED MARKETING OF PROGRAMS

- incorporate information about the ongoing modernization of shop equipment and the opportunities that presents to students to grow their skills
- promote ACE-IT, YES-2-IT and SkillsBC opportunities (Brendan Zozzman Cdn electrical champ)

Goal of the project and how it relates to Board goals

DG5: ALIGNMENT OF PROGRAMS & FACILITIES TO BETTER MEET STUDENT NEEDS

- have developed comprehensive inventory of all shop equipment
- looking into integrating programs (eg: A&W math with Tech. Ed.)
- mobile shop could be developed for elementary students to get introduced to hands on skill development
- could possibly be a multi-district initiative (eg: with SD20)
- students who do In-district transfers will be familiar with equipment in shops

DG7: PROVISION OF MORE PROGRAM CHOICES THROUGHOUT DISTRICT

- develop a comprehensive list of all tech programs available in the district

DG9: COLLABORATE WITH INDIVIDUALS & ORGANIZATIONS

- establish working relationships with groups such as KAST, Selkirk College, College of the Rockies and SkillsBC

Questions?

- Student – Digby Benner

