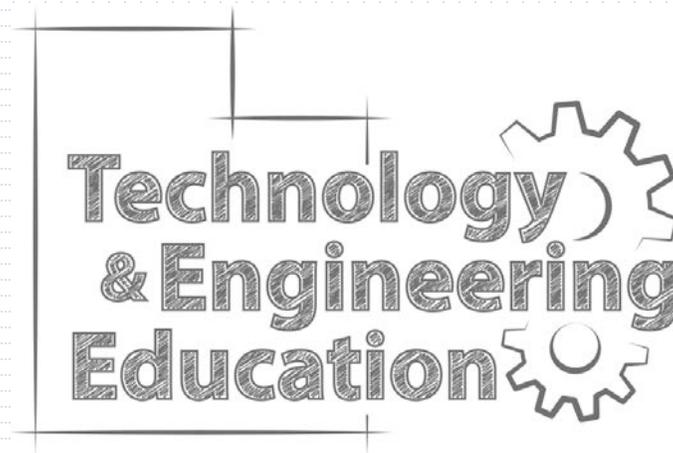




Utah State Office of Education

Common School Shop Safety Violations



 **CTE**® Learning that works for Utah

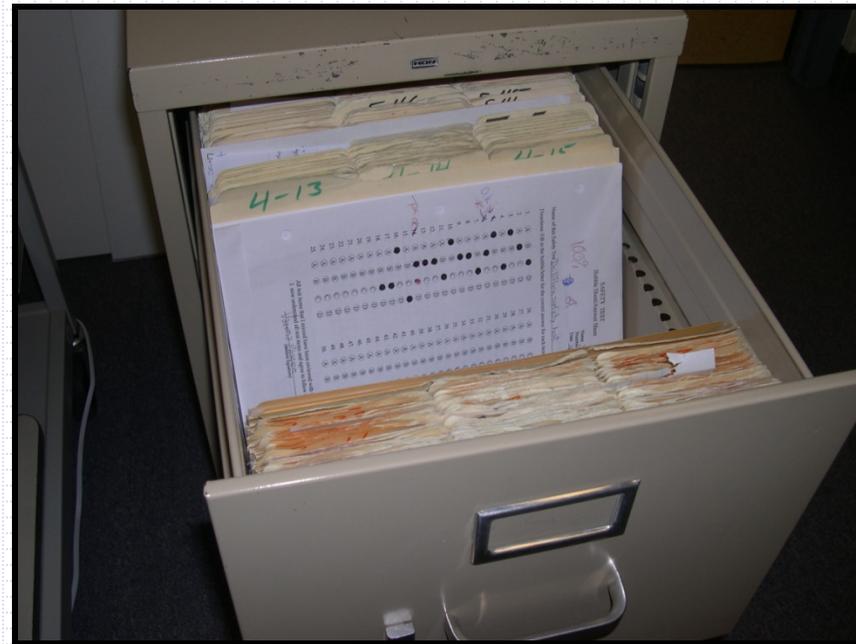
Record Keeping

HOW DO YOU MAINTAIN YOUR SAFETY RECORDS?



Do they look like this?

Are they neatly organized and easily accessible?



Record Keeping

HOW LONG MUST YOU MAINTAIN A STUDENT'S SAFETY RECORDS?

“Notice of claim in the State of Utah extends to one year following his/her reaching adulthood.”

-USOE Safety Program and Management Guide, 2002

Definition: Adulthood, legally defined as the “age of majority”, is 18 years old in the State of Utah.

Example: For a 12 year old, 7th grade student –
7 years (until their 19th birthday)

General Safety

WHAT'S WRONG HERE?



A student may not, without exception, work in the shop unless the instructor is present.

General Safety

WHAT'S WRONG HERE?



Safety glasses must be worn at all times in the shop area.

General Safety

WHAT'S WRONG HERE?



General Safety

WHAT'S WRONG HERE?

Don't wear a necklace or other jewelry when operating a machine.



General Safety

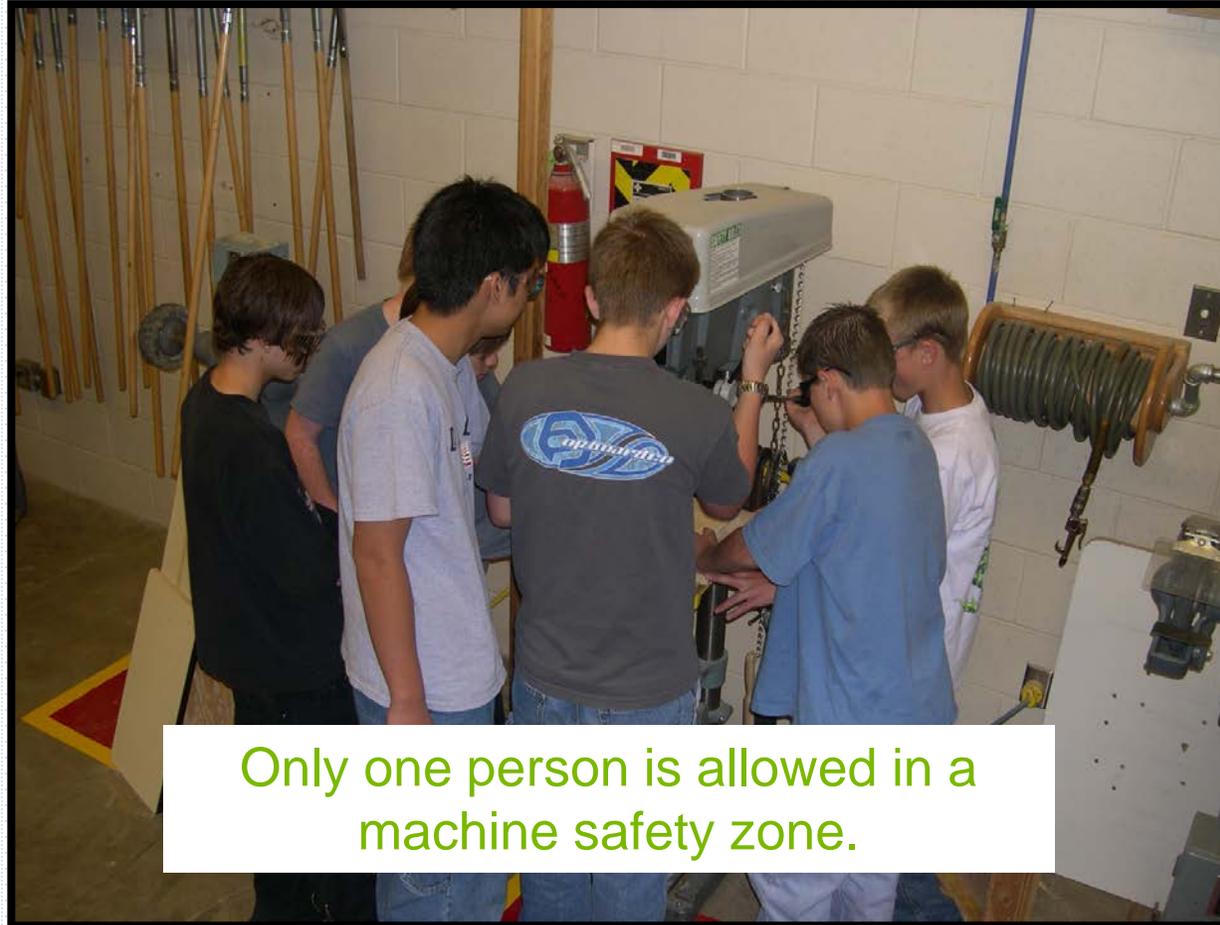
WHAT'S WRONG HERE?



Long hair should be pulled back when operating a machine.

General Safety

WHAT'S WRONG HERE?



Only one person is allowed in a machine safety zone.

General Safety

THERE'S A SAFER WAY!



One student operating a drill press at a time.

A safe distance between machine operators.

Students waiting their turn outside of the machine area.

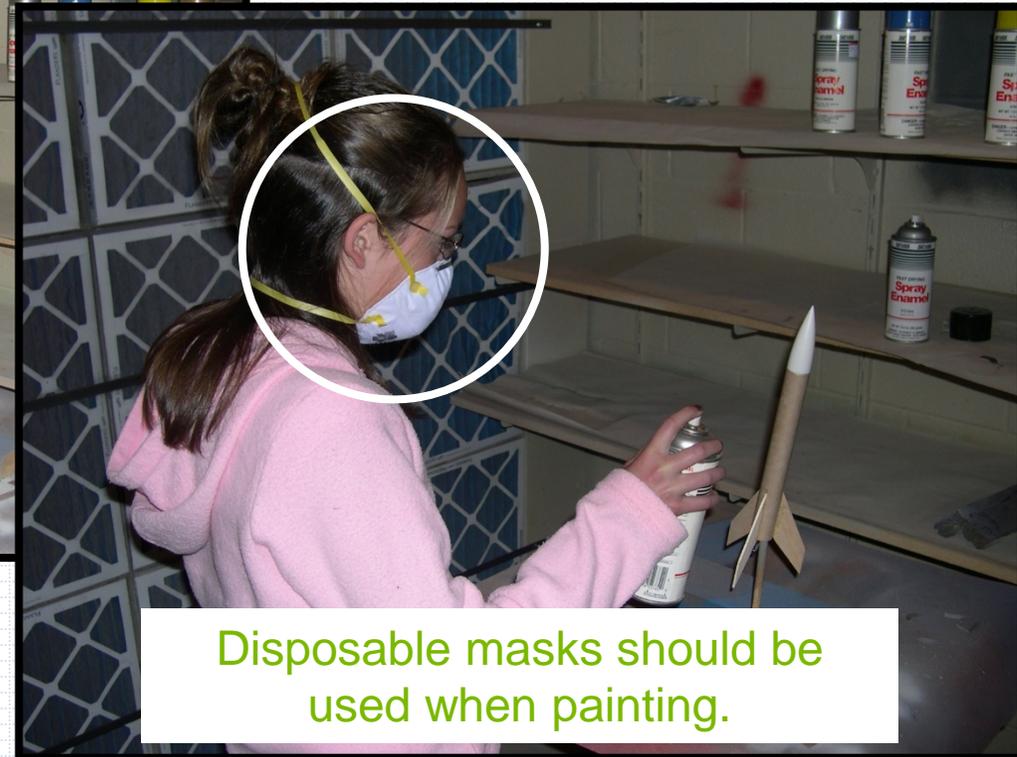
Teacher supervising the machine operation.

General Safety

WHAT'S WRONG HERE?



Not wearing safety glasses.



Disposable masks should be used when painting.

General Safety

WHAT'S WRONG HERE?



Fingers are too close.



Always maintain a 4" margin of safety.

General Safety

WHAT'S WRONG HERE?



General Safety



Aspirin should be removed.

Keep your first-aid kit stocked with basic supplies.

Drill Press

WHAT'S WRONG HERE?



Drill Press

WHAT'S WRONG HERE?



Drill Press

OR THERE'S A SAFER WAY...



Drill the hole in a larger board...
And then cut off the smaller piece.

Drill Press

WHAT'S WRONG HERE?



Drill press is too high for the student.
The student should not be drilling at eye level.

Drill Press



Mount or adjust drill press to an appropriate height.

Disk Sander

WHAT'S WRONG HERE?



Only one person is allowed in a machine zone at a time.

One student is sanding on the wrong side of the disk.



Disk Sander

WHAT'S WRONG HERE?



Not all sanders turn the same direction.
Always sand on the *downward* side.

Band Saw

WHAT'S WRONG HERE?



The blade-guide is too high. It should be adjusted to 1/8- 1/4" above the wood. This allows the guard to cover the blade, and the blade-guides to protect the blade from twisting.

Band Saw

WHAT'S WRONG HERE?



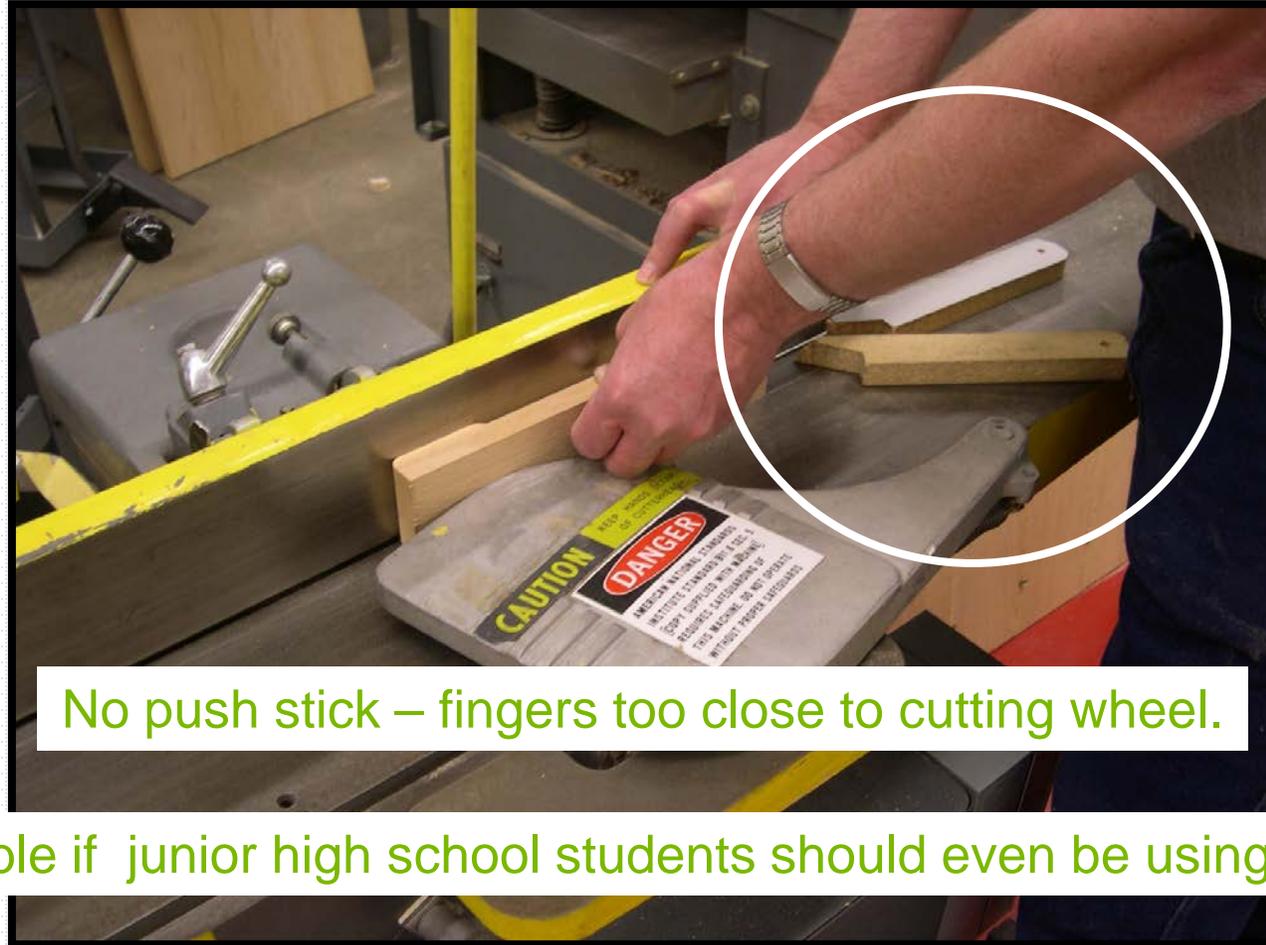
Band Saw



Always maintain a 4" margin of safety.

Jointer

WHAT'S WRONG HERE?



No push stick – fingers too close to cutting wheel.

Questionable if junior high school students should even be using a jointer.

Jointer

WHAT'S WRONG HERE?



Jointer



EXTREME DANGER!

Never joint end-grain less than 12" in width.

Jointer

THERE'S A SAFER WAY...



Sand end-grain smooth.

Table Saw

WHAT'S WRONG HERE?



No blade guard.

No Splitter.

Table Saw

SHOULD A JUNIOR HIGH SCHOOL STUDENT BE ALLOWED TO USE A TABLE SAW?

“At present, there is no policy outlined by the USOE on what equipment can and cannot be used at the junior high school level. However, I have a difficult time endorsing junior high school students (up to grade 8), and in most instances, 9th graders, using a table saw. When teachers choose to have 9th grade students use a table saw, it should be under the direct supervision of the teacher and with all manufacture’s guards in place.”

-Dave Milliken, USOE Skilled & Technical Science Specialist

Answer: **7th & 8th graders, NO!**

Table Saw

WHAT'S WRONG HERE?



Table Saw

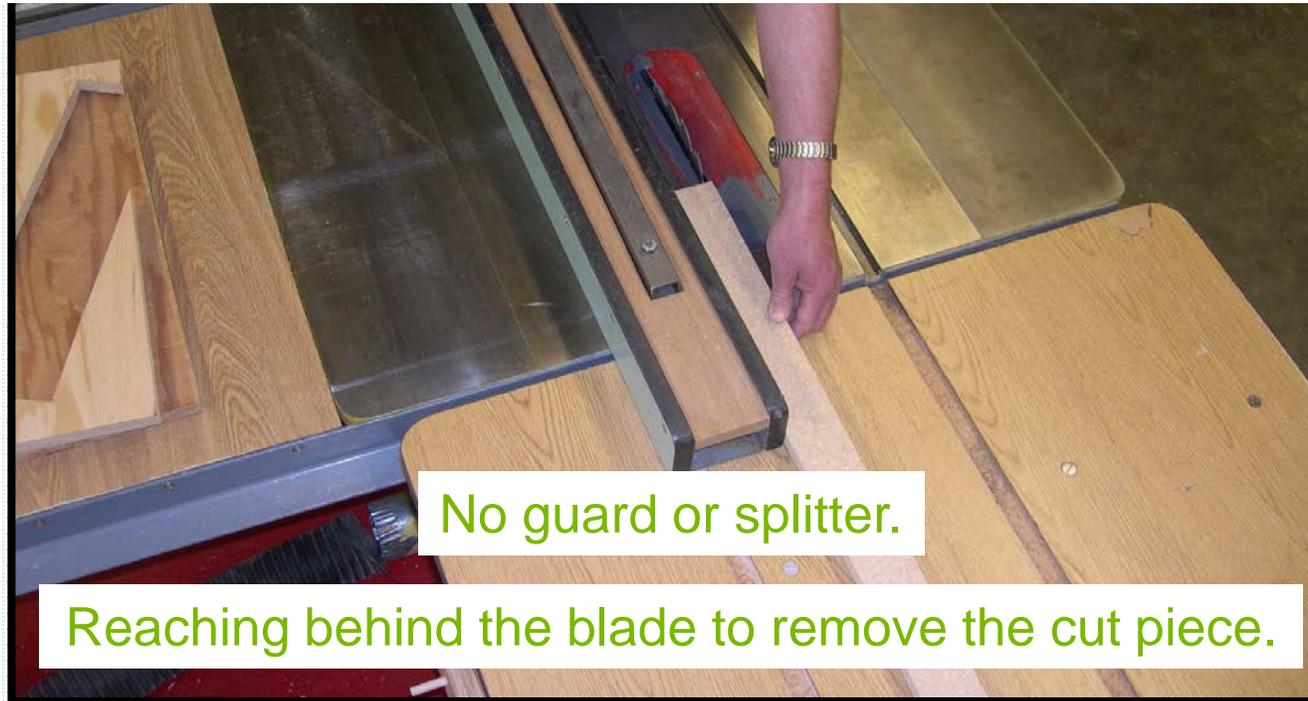
WHAT'S WRONG HERE?



Table Saw

WHAT'S WRONG HERE?

EXTREME DANGER!



No guard or splitter.

Reaching behind the blade to remove the cut piece.

Table Saw

THERE IS A SAFER WAY...



Using push sticks for narrow board.

Blade guard & splitter in place.

Table Saw



Use a push-stick to push board completely past the saw blades.

Router

WHAT'S WRONG HERE?

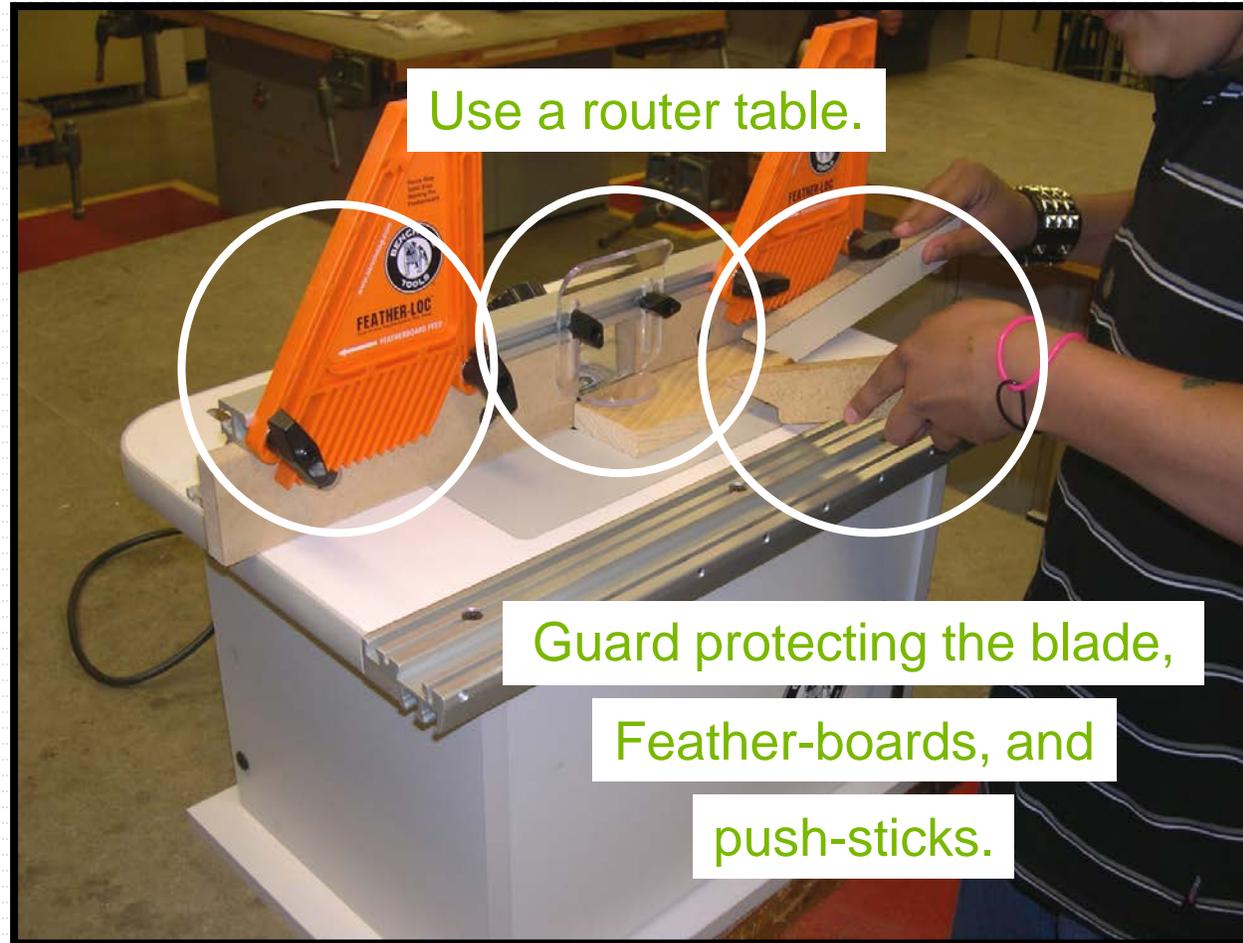
EXTREME DANGER!



Free-hand shaping with the router clamped in a vice.

Router

THERE'S A SAFER WAY...



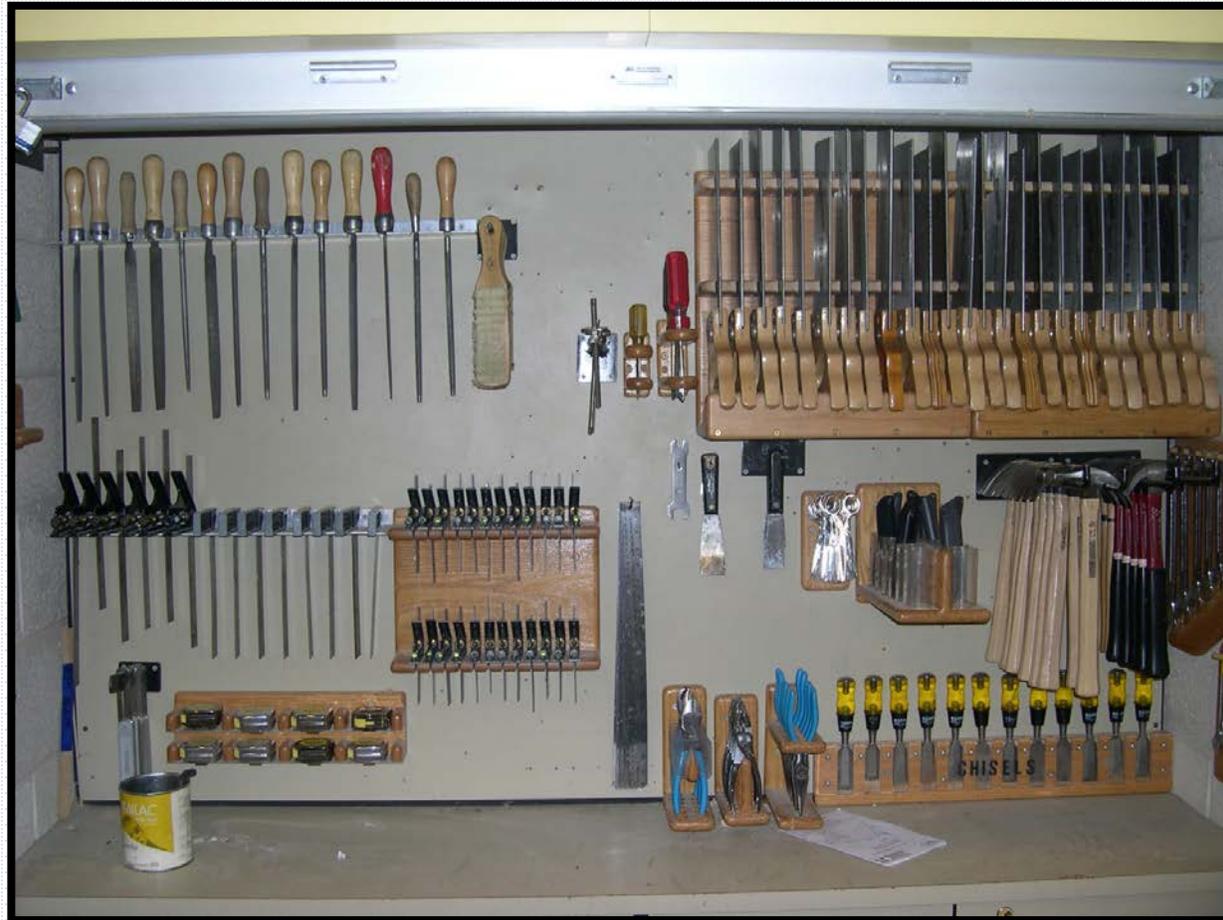
Router



Narrow pieces may require a third feather-board.

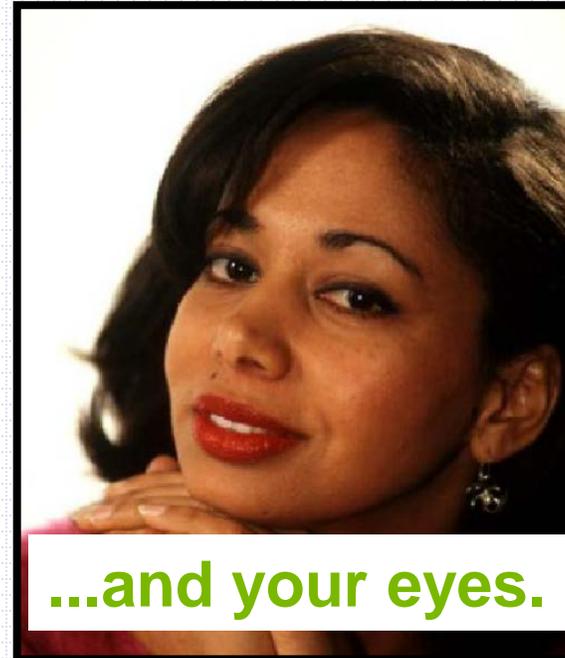
Conclusion

A CRAFTSMAN TAKES CARE OF HIS TOOLS



Conclusion

THESE ARE SOME OF THE MOST VALUABLE
TOOLS YOU HAVE...



Protect them by obeying safety rules!