Shebang! (first line of a script)	**#!/bin/bash**	**#!/bin/tcsh**
Multiple commands on the same line (semicolon)	**command1; command2; command3**	
Extending commands across multiple lines (backslash)	**command1 argument | command2 | command3 | \ command 4 | command5 > file**	
Variable assignment Setting environment variables Unsetting a variable	**VAR=”Here is a string”** **export VAR=”Here is a string”** *No spaces around the = sign!* **unset VAR**	**set VAR=”Here is a string”** **setenv VAR “Here is a string”** *No = when using setenv!* **unset VAR**
If statements *Can use == != && || and others.* *String sorting with < and >* If statements with file property testing (see property table below)	**if [[$VAR1 == $VAR2]]; then** ** echo "True"** **else** ** echo "False"** **fi** **if [[-d $VAR]]; then** ** echo "Directory!** **fi**	**if ($VAR1 == $VAR2) then** ** echo "True"** **else** ** echo "False"** **endif** **if (-d $VAR) then** ** echo "Directory!"** **endif**
Passing arguments to a script Corresponding variables Assigning command output to variables (backtick)	**myscript.sh arg1 arg2 arg3 … argN** **$1 $2 $3 … $N** **VAR=`command1; command2; command3` (bash)** **Set VAR=”`command1; command2; command3`” (tcsh)**	
String replacement	**NEWVAR=${VAR/search/replace}**	**set NEWVAR=** **"$VAR:gas/search/replace/"**
For loop on a list For loop using wildcards For loop using commands	**for i in 1 2 3 4 5; do** ** echo $i** **done** **for i in *.in; do** ** touch ${i/.in/.out}** **done** **for i in `cat files`; do** ** grep "string" $i >> list** **done**	**foreach i (1 2 3 4 5)** ** echo $i** **end** **foreach i (*.in)** ** touch "$i:gas/.in/.out/"** **end** **foreach i (`cat files`)** ** grep "string" $i >> list** **end**

Test	bash	tcsh
Is a directory	-d	-d
If file exists	-a,-e	-e
Is a regular file (like .txt)	-f	-f
Readable	-r	-r
Writeable	-w	-w
Executable	-x	-x
Is owned by user	-O	-o
Is owned by group	-G	-g
Is a symbolic link	-h, -L	-l
If the string given is zero length	-z	-z
If the string is length is non-zero	-n	-s