Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Parts of a Weld**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ welds can be made on many types of joints



**Fillet Weld Inspection**

* Fillet welds should:
	+ *Have a flat to slightly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
	+ *Be uniform in appearance*
	+ *Have equal leg size*
	+ *Have good wash-in into base materials*
* This is an example of a good fillet weld:



**Welding Symbols**

* Welding symbols give the welder specific instructions about the weld including:
	+ *Placement*
	+ *Size*
	+ *Process*
	+ *Any other special notes*
* Welding symbols are
	+ *Universally used*
	+ *Found on engineering drawings*



* Welding symbols contain information about the weld to be made
	+ *S – leg dimension of the weld*
	+ *Triangle – the weld is to be made on the arrow side of this joint*
	+ *Tail – any additional information required (i.e. position the weld is to be made)*
	+ *Arrow -*

**Welding Positions**

There are various positions that a weld can be made in:

