

1 | **Silicon**

- Integrated circuits changed computer circuitries
- Circuits's silicon purified as polycrystalline chunks
 - The cubic seed will form a new cubic silicon
 - Impurities added to silicon to cause it to conduct
 - Negative charged free carrier (arsenic) => n type
 - Positive charged carrier (boron) => p type
- Crystallize silicon to form ingots
- Then, sliced thin as wafers
- Wafers are then ground thin + removed of surface contaminants
- Then, wafers are checked for resistivity
- CMOS
 - n-type transistor sandwich a p type region
 - A charge on the gate would cause the charge to go through
 - Vice versa