ENTC 3020 — Technology & Society



Materials:

The Stuff of Things

 □ Power and Conquest □ Survival □ Financial Gain □ La Dolce Vita (a.k.a. The Good Life) 	What forces drive technological development?
	☐ Survival

Human History is Reckoned in Terms of...

Materials!

- **♦** Stone Age
- **♦** Bronze Age
- **♦** Iron Age
- ♦ Polyester Age (70's)

Properties of Stone	
☐ Plentiful	
☐ Hard	
☐ Durable	
☐ But not easily shaped	
Properties of Bronze	
☐ Not-so-plentiful	
☐ Man-made	
☐ Durable, but not very hard	
☐ Easily shaped	
Properties of Iron	
Doog not not unally come in its	
Does not naturally occur in its metallic form	
☐ Requires high temperatures	
☐ Unrefined, it is brittle	
☐ Refined as steel, it is tough	
☐ Durable and hard	
☐ Easily shaped	

Where Were **Settlements Located** Prior to the 19th **Century?** Why? **Technological Breakthroughs ☐** Portable Power **Steam Engines ☐** Inexpensive Steel Steam Boilers & Rails ☐ High Speed Steel Machine Tools **Technological Breakthroughs □** Electric Motors A new form of power ☐ The Electrical Grid Wide area distribution of power Commercial and residential users

☐ Consumer Products

Modern conveniences

Technological Breakthroughs
☐ Population Growth
Agriculture & Sanitation
☐ Energy Requirements
Massive needs
GDP α energy usage
☐ Environmental Pollution