CIVIII *Tech Tree*

Ancient Age

Bronze Working
Great Wonder
★ **The Colossus** - *(+1) Trade each Trade Tile*

Units
❖ **Hoplite** *(Greece)*

AT	DE	MO	BO	RA	ROF	TR
1	3	1	-	-	-	-

❖ **Impi** *(Zulu)*

AT	DE	MO	BO	RA	ROF	TR
1	2	2	-	-	-	-

❖ **Spearman**

AT	DE	MO	BO	RA	ROF	TR
1	2	1	-	-	-	-

Masonry
Great Wonder
★ **Pyramids** - *Free Granary for Continental Cities*

Improvements
▲ **Palace** - *Capitol*
▲ **Walls** - *(+50%) Defense*

Alphabet

Pottery
Improvement
▲ **Granary** - *(2x) City Growth*

The Wheel
Resource
🛠 **Horse** *(Grassland, Plains, Hill)*

Units
❖ **Chariot**

AT	DE	MO	BO	RA	ROF	TR
1	1	2	-	-	-	-

❖ **War Chariot** *(Egypt)*

AT	DE	MO	BO	RA	ROF	TR
2	1	2	-	-	-	-

Warrior Code
Units
❖ **Archer**

AT	DE	MO	BO	RA	ROF	TR
2	1	1	-	-	-	-

❖ **Bowman** *(Egypt)*

AT	DE	MO	BO	RA	ROF	TR
2	2	1	-	-	-	-

Ceremonial Burial
Improvement
▲ **Temple** - *(+1) Happiness*

Writing

Mysticism
Great Wonder
★ **The Oracle** - *(2x) Happiness from Temple*

Map Making
Great Wonder
★ **Great Lighthouse** - *(+1) Sea Movement, Deep Sea*

Improvement
▲ **Harbor** - *Veteran Sea, Sea Trade, Food Bonus*

Unit
❖ **Galley**

AT	DE	MO	BO	RA	ROF	TR
1	1	3	-	-	-	2

Polytheism

Iron Working
Resource
🛠 **Iron** *(Hill, Mountain)*

Units
❖ **Immortals** *(Persia)*

AT	DE	MO	BO	RA	ROF	TR
4	2	1	-	-	-	-

❖ **Legionary** *(Rome)*

AT	DE	MO	BO	RA	ROF	TR
3	3	1	-	-	-	-

❖ **Swordsman**

AT	DE	MO	BO	RA	ROF	TR
3	2	1	-	-	-	-

Mathematics
Unit
❖ **Catapult**

AT	DE	MO	BO	RA	ROF	TR
0	0	0	4	1	1	-

Horseback Riding
Units
❖ **Horseman**

AT	DE	MO	BO	RA	ROF	TR
2	1	2	-	-	-	-

❖ **Mounted Warrior** *(Iroquois)*

AT	DE	MO	BO	RA	ROF	TR
3	1	2	-	-	-	-

Monarchy
Great Wonder
★ **Hanging Gardens** - *(+1) Happiness Empire and (+3) Happiness Host City*

Government
Monarchy

Literature
Great Wonder
★ **Great Library** - *Gain Tech owned by 2civs*

Improvement
▲ **Library** - *(+50%) Science*

Philosophy

Code of Laws
Improvement
▲ **Courthouse** - *Resist Propaganda, Reduce Corruption*

The Republic
Government
Republic

Construction
Great Wonder
★ **Great Wall** - *(2x) vs Barbarians, (2x) City Defense*

Improvements
▲ **Aqueduct** - *Allow City size 2*
▲ **Colosseum** - *(+2) Happiness*

Action
■ **Fortress**

Currency
Improvement
▲ **Marketplace** - *(+50%) Tax, increase Lux. Trade*

Feudalism
Great Wonder
★ **Sun Tzu** - *Free Barrack for Continental Cities*

Unit
❖ **Pikeman**

AT	DE	MO	BO	RA	ROF	TR
1	3	1	-	-	-	-

Medieval Age

Monotheism
Improvement
▲ **Cathedral** - *(+3) Happiness*

Theology
Great Wonder
★ **Sistine Chapel** - *(2x) Happiness each Cathedral*

Expires
★ **The Oracle**

Education
Improvement
▲ **University** - *(+50%) Science*

Expires
★ **The Great Library**

Music Theory
Great Wonder
★ **J.S. Bach's Cathedral** - *(+2) Happiness All Continental Cities*

Engineering
Action
■ **Plant Forest**

Printing Press

Banking
Improvement
▲ **Bank** - *(+50%) Tax*

Astronomy
Great Wonder
★ **Copernicus' Observatory** - *(2x) Research*

Unit
❖ **Caravel**

AT	DE	MO	BO	RA	ROF	TR
1	2	3	-	-	-	3

Invention
Great Wonder
★ **Leonardo's Workshop** - *(1/2) Unit Upgrade*

Unit
❖ **Longbowman**

AT	DE	MO	BO	RA	ROF	TR
4	1	1	-	-	-	-

Chivalry
Units
❖ **Knight**

AT	DE	MO	BO	RA	ROF	TR
4	3	2	-	-	-	-

❖ **Rider** *(China)*

AT	DE	MO	BO	RA	ROF	TR
4	3	3	-	-	-	-

❖ **Samurai** *(Japan)*

AT	DE	MO	BO	RA	ROF	TR
4	4	2	-	-	-	-

❖ **War Elephant** *(India)*

AT	DE	MO	BO	RA	ROF	TR
4	3	2	-	-	-	-

Democracy
Government
Democracy

Economics
Great Wonder
★ **Smith's Trading Company** - *Free Maintenance for Trade Buildings*

Navigation
Great Wonder
★ **Magellan's Voyage** - *(+1) Naval Movement*

Unit
❖ **Explorer**

AT	DE	MO	BO	RA	ROF	TR
1	2	2	-	-	-	-

Free Artistry
Great Wonder
★ **Shakespeare's Theatre** - *(+8) Happiness Host City*

Gunpowder
Resource
🛠 **Salpeter** *(Hill, Mountain, Desert, Tundra)*

Units
❖ **Musketeer** *(France)*

AT	DE	MO	BO	RA	ROF	TR
3	4	1	-	-	-	-

❖ **Musketman**

AT	DE	MO	BO	RA	ROF	TR
2	4	1	-	-	-	-

Chemistry

Physics

Metallurgy
Improvement
▲ **Coastal Fortress** - *(+50%) vs Naval*

Expires
★ **The Great Wall**

Unit
❖ **Cannon**

AT	DE	MO	BO	RA	ROF	TR
0	0	1	8	1	1	-

Military Tradition
Small Wonder
★ **Military Academy** - *Armies without Leaders*

Units
❖ **Cavalry**

AT	DE	MO	BO	RA	ROF	TR
6	3	3	-	-	-	-

❖ **Cossack** *(Russia)*

AT	DE	MO	BO	RA	ROF	TR
6	4	3	-	-	-	-

Theory of Gravity
Great Wonder
★ **Newton's University** - *(2x) Research*

Magnetism
Expires
★ **The Great Lighthouse**

Units
❖ **Frigate**

AT	DE	MO	BO	RA	ROF	TR
2	2	4	2	1	2	-

❖ **Galleon**

AT	DE	MO	BO	RA	ROF	TR
1	2	4	-	-	-	4

❖ **Man-o-War** *(England)*

AT	DE	MO	BO	RA	ROF	TR
3	2	4	3	1	2	-

❖ **Privateer**

AT	DE	MO	BO	RA	ROF	TR
1	1	3	-	-	-	-

Medicine

Sanitation
Improvement
▲ **Hospital** - *Allow City Size 3*

Steam Power
Resource
🛠 **Coal** *(Hill, Mountain, Jungle)*

Action
■ **Railroad**

Expires
★ **Hanging Gardens**

Unit
❖ **Ironclad**

AT	DE	MO	BO	RA	ROF	TR
4	4	4	4	1	2	-

Nationalism
Unit
❖ **Rifleman**

AT	DE	MO	BO	RA	ROF	TR
4	6	1	-	-	-	-

Communism
Improvement
▲ **Police Station** - *Less War Weariness*

Government
Communism

Electricity

Scientific Method
Great Wonder
★ **Theory of Evolution** - *2 Free Advances*

Industrialization
Great Wonder
★ **Universal Suffrage** - *Reduces War Weariness*

Improvements
▲ **Coal Plant** - *Replace any Power Plant*
▲ **Factory** - *Bonus Shields*

Replaceable Parts
Resource
🛠 **Rubber** *(Jungle, Forest)*

Units
❖ **Artillery**

AT	DE	MO	BO	RA	ROF	TR
0	0	1	12	2	2	-

❖ **Infantry**

AT	DE	MO	BO	RA	ROF	TR
6	10	1	-	-	-	-

Espionage
Small Wonder
★ **Intelligence Agency** - *Allow Spying*

Atomic Theory

The Corporation

Refining
Resource
🛠 **Oil** *(Tundra, Plains, Desert)*

Steel

Industrial Age

Electronics
Great Wonder
★ **Hoover Dam** - *Free Hydro Plant for Continental Cities*

Improvement
▲ **Hydro Plant** - *Replaces any Power Plant*

Combustion
Units
❖ **Destroyer**

AT	DE	MO	BO	RA	ROF	TR
12	8	5	6	1	2	-

❖ **Transport**

AT	DE	MO	BO	RA	ROF	TR
1	4	5	-	-	-	8

Flight
Improvement
▲ **Airport** - *Veteran Air Units, Air Trade*

Units
❖ **Bomber**

AT	DE	MO	BO	RA	ROF	TR
0	2	6	8	0	3	-

❖ **Fighter**

AT	DE	MO	BO	RA	ROF	TR
4	2	4	2	0	1	-

Expires
★ **The Colossus**

Mass Production
Units
❖ **Battleship**

AT	DE	MO	BO	RA	ROF	TR
18	12	5	8	2	2	-

❖ **Carrier**

AT	DE	MO	BO	RA	ROF	TR
1	8	4	-	-	-	4

❖ **Submarine**

AT	DE	MO	BO	RA	ROF	TR
6	4	3	-	-	-	-

Motorized Trans.
Units
❖ **Panzer** *(Germany)*

AT	DE	MO	BO	RA	ROF	TR
16	8	3	-	-	-	-

❖ **Tank**

AT	DE	MO	BO	RA	ROF	TR
16	8	2	-	-	-	-

Radio

Amphibeous War
Units
❖ **Marine**

AT	DE	MO	BO	RA	ROF	TR
8	6	1	-	-	-	-

Advanced Flight
Units
❖ **Helicopter**

AT	DE	MO	BO	RA	ROF	TR
0	2	4	-	-	-	1

❖ **Paratrooper**

AT	DE	MO	BO	RA	ROF	TR
6	8	1	-	-	-	-

Rocketry
Improvement
▲ **SAM Missile Battery** - *Bonus Air*

Resource
🛠 **Aluminum** *(Hill, Mountain, Desert, Plains)*

Units
❖ **Cruise Missile**

AT	DE	MO	BO	RA	ROF	TR
0	0	1	16	2	3	-

❖ **F-15** *(America)*

AT	DE	MO	BO	RA	ROF	TR
8	4	6	4	0	2	-

❖ **Jet Fighter**

AT	DE	MO	BO	RA	ROF	TR
8	4	6	2	0	1	-

Ecology
Improvements
▲ **Mass Transit System** - *No Pop. Pollution*
▲ **Solar Plant** - *Replace any Power Plant*

Modern Age

Computers
Great Wonder
★ **SETI Program** - *(2x) Research*

Improvement
▲ **Research Lab** - *(+50%) Science*

Unit
❖ **Mech. Infantry**

AT	DE	MO	BO	RA	ROF	TR
12	18	2	-	-	-	-

Fission
Great Wonder
★ **The Manhattan Project** - *Diplomatic Win*
★ **United Nations** - *All Civs Build Nukes*

Resource
🛠 **Uranium** *(Mountain, Forest)*

Units
❖ **Nuclear Submarine**

AT	DE	MO	BO	RA	ROF	TR
6	4	3	-	-	-	

Space Flight
Great Wonder
★ **Apollo Program** - *Build Spaceship*

Improvements
▲ **SS Cockpit**
▲ **SS Docking Bay**
▲ **SS Engine**

Unit
❖ **Tactical Nuke**

AT	DE	MO	BO	RA	ROF	TR
0	0	1	-	-	-	-

Recycling
Improvement
▲ **Recycling Plant** - *Reduces Building Pollution*

Nuclear Power
Improvement
▲ **Nuclear Plant** - *Replace any Power Plant*

Synthetic Fibers
Improvements
▲ **SS Exterior Casing**
▲ **SS Stasis Chamber**
▲ **SS Storage/Supply**

Unit
❖ **Modern Armor**

AT	DE	MO	BO	RA	ROF	TR
24	16	3	-	-	-	-

Miniaturization
Improvement
▲ **Offshore Platform** - *Water Shield Bonus*

The Laser
Improvement
▲ **SS Planetary Party Lounge**

Superconductor
Improvement
▲ **SS Fuel Cells**
▲ **SS Life Support System**

Satellites
Unit
❖ **ICBM**

AT	DE	MO	BO	RA	ROF	TR
0	0	1	-	-	-	-

Improvement
▲ **SS Thrusters**

Stealth
Units
❖ **Stealth Bomber**

AT	DE	MO	BO	RA	ROF	TR
0	0	8	8	0	3	-

❖ **Stealth Fighter**

AT	DE	MO	BO	RA	ROF	TR
0	0	6	4	0	2	-

Genetics
Great Wonder
★ **Cure For Cancer** - *(+1) Happiness*
★ **Longevity** - *City Growth 2 Population*

Robotics
Improvement
▲ **Manufacturing Plant** - *Shield Bonus*

Units
❖ **AEGIS Cruiser**

AT	DE	MO	BO	RA	ROF	TR
12	10	5	4	2	2	-

❖ **Radar Artillery**

AT	DE	MO	BO	RA	ROF	TR
0	0	1	16	2	2	-

Smart Weapons

Integrated Defense
Small Wonder
★ **Strategic Missile Defense** - *Reduces Missile Attack Success by 75%*