

Armor		
Armor Tier	Name	Tech Required
Tier 2 Ranged	Refined Leather	Archery
Tier 3 Ranged	Hardened Leather	Feudalism
Tier 4 Ranged	Composite Leather	Composites
Tier 2 Melee	Steel	Steel Working
Tier 3 Melee	Carbide Steel	Metal Casting
Tier 4 Melee	Tungsten	Alloys

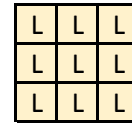
Weapons		
Weapons Tier	Name	Tech Required
Tier 2 Ranged	Recurve Bow	Archery
Tier 3 Ranged	Longbow	Feudalism
Tier 4 Ranged	Marksmen Bow	Composites
Tier 2 Melee	Steel Longsword	Steel Working
Tier 3 Melee	Carbide Steel Sword	Metal Casting
Tier 4 Melee	Tungsten Broadsword	Alloys

Refined Leather Armor

#	Item Needed	#	Items	Shape
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24	Carved Leather			
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		9	Leather (L)	
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Items Needed per Carved Leather

9 Leather

Total Items for Complete Set of Tier 2 Leather Armor

216 Leather

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[Composite Leather](#)

[Composite Bow Stave](#)

[Steel Sword Hilt](#)

Hardened Leather

Item Needed	Items	Shape
24 Leather Straps	2 Varnish 3 Crafted Leather	Shapeless

Items needed for each Leather Strap

18 Slime
18 Sugar
36 Wart
27 String
27 Leather

Items Needed for Complete Set of Tier 3 Leather Armor

432 Slime
432 Sugar
864 Wart
648 String
648 Leather

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[Tungsten Sword Hilt](#)

Composite Leather

Item Needed	Items	Shape
24 Artisan Leather	2 Leather Straps 2 Reinforced Braid	Shapeless

Items Needed per Artisan Leather

198 Slime
90 Sugar
108 Wart
198 String
54 Leather
12 Wooden Planks

Items Needed for Complete Set of Tier 4 Ranged Armor

4752 Slime
2160 Sugar
2592 Wart
4752 String
1296 Leather
288 Wooden Planks

Recurve Bow

CS	A	
CS		A
CS	A	

Items Needed

3 Crafted String (CS)

9 String (S)

S	S	S
S	S	S
S	S	S

3 [Aged Wood Stave](#)

Items Needed for Recurve Bow

27 String

81 Sticks

54 Sugar Cane

54 String

Longbow

B	LS	
B		LS
B	LS	

Items Needed

- 3 [Reinforced Braid](#)
- 3 [Longbow Stave](#)

Items Needed for Longbow

- 324 Slime
- 108 Sugar
- 54 Wart
- 270 String
- 27 Wooden Planks
- 81 Sticks
- 54 Sugar Cane

Marksmen Bow

B	LS	
B		LS
B	LS	

Items Needed

- 3 [Composite Bow String](#)
- 3 [Composite Bow Stave](#)

Items Needed for Marksmen Bow

- 1971 Slime
- 729 Sugar
- 486 Wart
- 1350 String
- 162 Wooden Planks
- 162 Sulfur
- 162 Sticks
- 108 Sugar Cane
- 162 Leather

Steel Armor

Item Needed	Items	
24 Steel Plate		Shapeless
	1 Steel Ingot	
	1 Varnish	
	1 Clay Molding	

Items Needed per Steel Plate

27 Iron
27 Coal
9 Sulfur
9 Slime
9 Sugar
18 Wart
27 Clay
18 Sugar Cane
27 Sticks

Items Needed for Complete Tier 2 Melee Armor

648 Iron
648 Coal
216 Sulfur
216 Slime
216 Sugar
432 Wart
648 Clay
432 Sugar Cane
648 Sticks

Carbide Steel

Item Needed	Items	Shape
24 Carbide Steel Plate	1 Carbide Steel Ingot 1 Clay Molding 3 Sticky Resin	Shapeless

Items Needed per Carbide Steel Plate

90 Slime
36 Sugar
18 Wart
27 Iron
54 Coal
27 Sulfur
18 Chromium Ore
1 Diamond
27 Clay
18 Sugar Cane
27 Sticks
9 Wooden Planks

Items Needed for Complete Tier 3 Melee Armor

2160 Slime
864 Sugar
432 Wart
648 Iron
1296 Coal
648 Sulfur
432 Chromium Ore
24 Diamond
648 Clay
432 Sugar Cane
648 Sticks
216 Wooden Planks

Tungsten

Item Needed	Items	Shape
24 Tungsten Plate	3 Smithy Resin 1 Clay Tungsten Casting 1 Tungsten Ingot	Shapeless

Items Needed to make each Tungsten Plate

54 Sulfur
162 Slime
54 Sugar
18 Wooden Planks
54 Clay
36 Sugar Cane
54 Sticks
27 Slime
9 Sugar
3 Wooden Planks
99 Coal
45 Tungsten
36 Sulfur
36 Chromium Ore
2 Diamond

Items Needed for Complete Tier 4 Melee Armor

1296 Sulfur
3888 Slime
1296 Sugar
432 Wooden Planks
1296 Clay
864 Sugar Cane
1296 Sticks
648 Slime
216 Sugar
72 Wooden Planks
2376 Coal
1080 Tungsten
864 Sulfur
864 Chromium Ore
48 Diamond

Steel Longsword

	B	
	B	
	H	

Items Needed

- 2 [Steel Sword Blade](#)
- 1 [Steel Sword Hilt](#)

Items Needed for Steel Longsword

- 162 Iron
- 162 Coal
- 54 Sulfur
- 108 Sugar Cane
- 144 Sticks
- 135 Slime
- 81 Sugar
- 9 Wooden Planks
- 108 Clay
- 108 Wart
- 54 String
- 54 Leather

Carbide Steel Sword

	B	
	B	
	H	

Items Needed

- 2 [Carbide Steel Sword Blade](#)
- 1 [Carbide Steel Sword Hilt](#)

Items Needed for Carbide Steel Sword

- 333 Sulfur
- 513 Slime
- 225 Sugar
- 45 Wooden Planks
- 180 Wart
- 243 Iron
- 531 Coal
- 162 Chromium Ore
- 9 Diamond
- 162 Sugar Cane
- 216 Sticks
- 162 Clay
- 72 String

Tungsten Broadsword

	B	
	B	
	H	

Items Needed

- 2 [Tungsten Sword Blade](#)
- 1 [Tungsten Sword Hilt](#)

Items Needed for Tungsten Broadsword

- 432 Sulfur
- 1044 Slime
- 396 Sugar
 - 96 Wooden Planks
- 432 Clay
- 288 Sugar Cane
- 432 Sticks
- 648 Coal
- 360 Tungsten
- 288 Chromium Ore
 - 16 Diamond
- 216 Wart
- 396 String
- 108 Leather

Crafted Leather

	CS	CL

Items Needed
1 Crafted String

9 String (S)

S	S	S
S	S	S
S	S	S

1 Carved Leather

9 Leather (L)

L	L	L
L	L	L
L	L	L

Items Needed per Crafted Leather

9 String
9 Leather

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[Carbide Steel Plate](#)

[Reinforced Braid](#)

[Smithy Resin](#)

[Clay Tungsten Casting](#)

[Longbow Stave](#)

[Clay Steel Casting](#)

[Steel Sword Hilt](#)

Sticky Resin

RSL	RSL	RSL
	RS	
	B	

Item
3 Refined Slime

Item
9 Slime (SI)

SI	SI	SI
SI	SI	SI
SI	SI	SI

1 Refined Sugar (RS)

9 Sugar (S)

S	S	S
S	S	S
S	S	S

1 Bowl (B)

3 Wooden Planks (P)

P		P
	P	

Total Items Needed Per Sticky Resin
27 Slime
9 Sugar
3 Wooden Planks

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[Tungsten Plate](#)

[Composite Bow String](#)

[Carbide Steel Sword Blade](#)

[Carbide Steel Sword Hilt](#)

[Tungsten Sword Blade](#)

[Tungsten Sword Hilt](#)

Smithy Resin

Items Needed

1 Coal Block

9 Coal

Shapeless

C	C	C
C	C	C
C	C	C

2 Refined Sulfur

9 Sulfur (S)

S	S	S
S	S	S
S	S	S

2 [Sticky Resin](#)

Total Items Needed Per Smity Resin

9 Coal

18 Sulfur

54 Slime

18 Sugar

6 Wooden Planks

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[Steel Armor](#)

[Carbide Steel Plate](#)

[Clay Tungsten Casting](#)

[Clay Steel Casting](#)

Clay Molding

FC	FC	FC
CR	CS	CR
CS		CS

Items Needed
3 Forged Clay (FC)

9 Clay (C)

C	C	C
C	C	C
C	C	C

2 Crafted Reeds (CR)

9 Sugar Cane (s)

S	S	S
S	S	S
S	S	S

3 Crafted Sticks (CS)

9 Sticks (S)

S	S	S
S	S	S
S	S	S

Items needed for Clay Molding

27 Clay

18 Sugar Cane

27 Sticks

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[Tungsten Sword Blade](#)

[Tungsten Sword Hilt](#)

Clay Tungsten Casting

Items Needed

2 Crafted Reeds

Shapeless

9 Sugar Cane

C	C	C
C	C	C
C	C	C

2 [Clay Molding](#)

1 [Sticky Resin](#)

Items Needed For Clay Tungsten Casting

54 Clay

36 Sugar Cane

54 Sticks

27 Slime

9 Sugar

3 Wooden Planks

- [HOME](#)
- [Hardened Leather](#)
- [Steel Armor](#)
- [Steel Sword Hilt](#)
- [Reinforced Braid](#)

Varnish

	RSL	
RW	RS	RW

Items Needed

1 Refined Slime (RSL)

9 Slime (SI)

SI	SI	SI
SI	SI	SI
SI	SI	SI

1 Refined Sugar (RS)

9 Sugar (S)

S	S	S
S	S	S
S	S	S

2 Refined Wart (RW)

9 Wart (W)

W	W	W
W	W	W
W	W	W

Items Needed to Make Varnish

- 9 Slime
- 9 Sugar
- 18 Wart

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[Tungsten Sword Blade](#)

[Tungsten Sword Hilt](#)

Tungsten Ingot

Items Needed

2 Coal Block

9 Coal (C)

C	C	C
C	C	C
C	C	C

5 Forged Tungsten

9 Tungsten (T)

T	T	T
T	T	T
T	T	T

2 [Chromium Ingot](#)

Items Needed for Tungsten Ingot

72 Coal

45 Tungsten

36 Sulfur

36 Chromium Ore

2 Diamond

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[Carbide Steel Ingot](#)

[Tungsten Ingot](#)

Chromium Ingot

CB	CB	CB
RS	D	FC
RS		FC

Items Needed
3 Coal Blocks (CB)

9 Coal (C)

C	C	C
C	C	C
C	C	C

2 Refined Sulfur (RS)

9 Sulfur (S)

S	S	S
S	S	S
S	S	S

2 Forged Chromium (FC)

9 Chromium Ore (co)

CO	CO	CO
CO	CO	CO
CO	CO	CO

1 Diamond (D)

Items Needed for Chromim Ingot

27 Coal

18 Sulfur

18 Chromium Ore

1 Diamond

Woven Threading

	RSL	
CS		CS
CS		CS

Items Needed

1 Refined Slime (RSL)

9 Slime (SI)

SI	SI	SI
SI	SI	SI
SI	SI	SI

4 Crafted String (CS)

9 String (S)

S	S	S
S	S	S
S	S	S

Items needed for each Woven Threading

9 Slime

36 String

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[Composite Leather](#)

[Longbow](#)

[Composite Bow String](#)

[Composite Bow Stave](#)

[Carbide Steel Sword Hilt](#)

Reinforced Braid

Items	Shapeless
1 Varnish	
2 Woven Threading	
2 Sticky Resin	

Items needed for each Reinforced Braid

- 81 Slime
- 27 Sugar
- 18 Wart
- 72 String
- 6 Wooden Planks

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[Steel Sword Hilt](#)

Steel Ingot

IB	IB	IB
CB	CB	CB
	RS	

Items Needed
3 Iron Blocks (IB)

9 Iron (I)

I	I	I
I	I	I
I	I	I

3 Coal Blocks (CB)

9 Coal (C)

C	C	C
C	C	C
C	C	C

1 Refined Sulfur (RS)

9 Sulfur (S)

S	S	S
S	S	S
S	S	S

Items Needed for Each Steel Ingot

27 Iron

27 Coal

9 Sulfur

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[Carbide Steel Plate](#)

[Carbide Steel Sword Blade](#)

[Carbide Steel Sword Hilt](#)

Carbide Steel Ingot

Items Needed	Shapeless
1 Varnish	
1 Steel Ingot	
1 Chromium Ingot	

Items Needed for Each Carbide Steel Ingot

9 Slime

9 Sugar

18 Wart

27 Iron

54 Coal

27 Sulfur

18 Chromium Ore

1 Diamond

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[Recurve Bow](#)
[Longbow Stave](#)

Aged Wood Stave

CS	CS	CS
CR		CR
S		S

Items Needed

3 Crafted Sticks (CS)

9 Sticks (S)

S	S	S
S	S	S
S	S	S

2 Crafted Reeds (CR)

9 Sugar Cane (SC)

SC	SC	SC
SC	SC	SC
SC	SC	SC

2 Crafted String (S)

9 String (S)

S	S	S
S	S	S
S	S	S

Items Needed for Aged Wood Stave

27 Sticks

18 Sugar Cane

18 String

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[Longbow](#)

[Composite Bow Stave](#)

Longbow Stave

Items Needed	Shapeless
1 Aged Wood Stave	
1 Sticky Resin	

Items Needed for Each Longbow Stave

- 27 Sticks
- 18 Sugar Cane
- 18 String
- 27 Slime
- 9 Sugar
- 3 Wooden Planks

Composite Bow Stave

Items Needed	Shapeless
2 Longbow Stave	
2 Leather Straps	
2 Reinforced Braid	

Items Needed per Composit Bow Stave

- 54 Sticks
- 36 Sugar Cane
- 234 String
- 252 Slime
- 108 Sugar
- 18 Wooden Planks
- 108 Wart
- 54 Leather

Composite Bow String

Items Needed	Shapeless
3 Reinforced Braid	
3 Smithy Resin	

Items Needed per Composite Bow String

405 Slime
135 Sugar
54 Wart
216 String
36 Wooden Planks
54 Sulfur
27 Coal

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[Steel Longsword](#)

Steel Sword Hilt

Items Needed	Shapeless
2 Steel Ingot	
2 Varnish	
2 Leather Straps	
1 Sticky Resin	

Items Needed per Steel Sword Hilt

54 Iron
54 Coal
18 Sulfur
81 Slime
63 Sugar
108 Wart
54 String
54 Leather
3 Wooden Planks

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[Steel Sword Blade](#)

[Carbide Steel Sword Blade](#)

[Carbide Steel Sword Hilt](#)

Clay Steel Casting

Items Needed
2 Crafted Reeds

Shapeless

9 Sugar Cane

C	C	C
C	C	C
C	C	C

2 Crafted Sticks

9 Sticks

C	C	C
C	C	C
C	C	C

1 [Sticky Resin](#)

2 [Clay Molding](#)

Items Needed per Clay Steel Casting

54 Sugar Cane

72 Sticks

27 Slime

9 Sugar

3 Wooden Planks

54 Clay

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[Steel Longsword](#)

Steel Sword Blade

Items Needed	Shapeless
2 Steel Ingot	
1 Clay Steel Casting	

Items Needed per Steel Sword Blade

54 Iron
54 Coal
18 Sulfur
54 Sugar Cane
72 Sticks
27 Slime
9 Sugar
3 Wooden Planks
54 Clay

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[Carbide Steel Sword](#)

Carbide Steel Sword Hilt

Items Needed	Shapeless
1 Reinforced Braid	
1 Carbide Steel Ingot	
1 Smithy Resin	
1 Clay Steel Casting	

Items Needed per Carbide Steel Sword Hilt

171 Slime
63 Sugar
36 Wart
72 String
15 Wooden Planks
27 Iron
63 Coal
45 Sulfur
18 Chromium Ore
1 Diamond
54 Sugar Cane
72 Sticks
54 Clay

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[Carbide Steel Sword](#)

Carbide Steel Sword Blade

Items Needed	Shapeless
2 Smithy Resin	
4 Carbide Steel Ingot	
1 Clay Steel Casting	

Items Needed per Carbide Steel Sword Blade

- 144 Sulfur
- 171 Slime
- 81 Sugar
- 15 Wooden Planks
- 72 Wart
- 108 Iron
- 234 Coal
- 72 Chromium Ore
- 4 Diamond
- 54 Sugar Cane
- 72 Sticks
- 54 Clay

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[Tungsten Broadsword](#)

Tungsten Sword Hilt

Items Needed	Shapeless
2 Smithy Resin	
2 Artisan Leather	
2 Clay Tungsten Casting	
2 Tungsten Ingot	

Items Needed per Tungsten Sword Hilt

108 Sulfur
558 Slime
234 Sugar
42 Wooden Planks
216 Wart
396 String
108 Leather
108 Clay
72 Sugar Cane
108 Sticks
162 Coal
90 Tungsten
72 Chromium Ore
4 Diamond

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[Tungsten Broadsword](#)

Tungsten Sword Blade

Items Needed	Shapeless
3 Smithy Resin	
3 Clay Tungsten Casting	
3 Tungsten Ingot	

Items Needed per Tungsten Sword Blade

162 Sulfur
243 Slime
81 Sugar
27 Wooden Planks
162 Clay
108 Sugar Cane
162 Sticks
243 Coal
135 Tungsten
108 Chromium Ore
6 Diamond