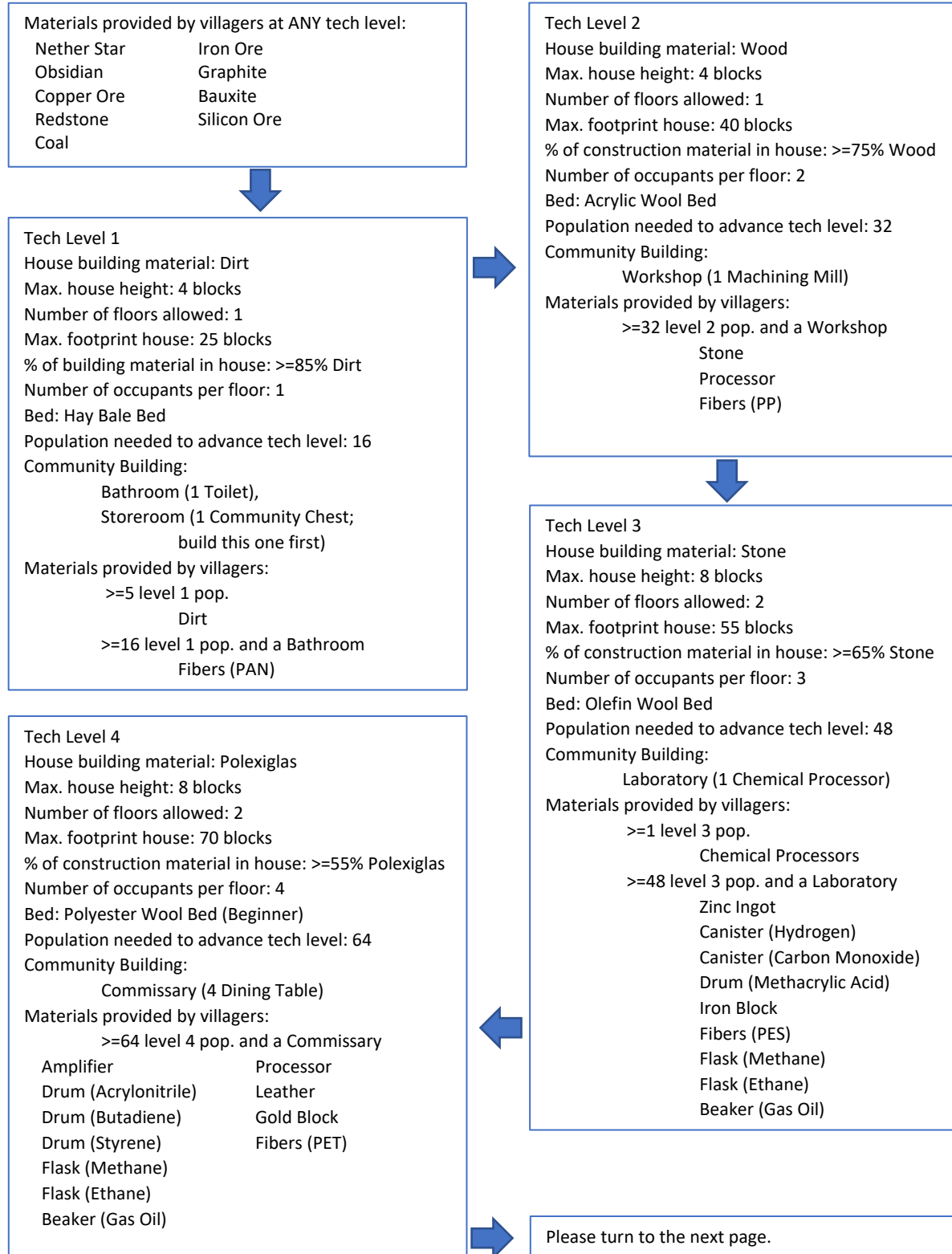




2023 BEST Robotics Refugee Crisis Challenge – Cheat Sheet



Tech Level 5
House building material: ABS Bricks
Max. house height: 12 blocks
Number of floors allowed: 3
Max. footprint house: 85 blocks
% of construction material in house: $\geq 50\%$ ABS Bricks
Number of occupants per floor: 5
Bed: Polyester Wool Bed (Intermediate)
Population needed to advance tech level: 80
Community Building:

Library (10 Bookshelf)

Materials provided by villagers:

≥ 80 level 5 pop. and a Library.

Block of Copper

Block of Tin

Fibers (Nylon 6)

Diamond Block

Flask (Methane)

Flask (Ethane)

Beaker (Gas Oil)

Leather

Tech Level 6
House building material: Bronze
Max. house height: 16 blocks
Number of floors allowed: 4
Max. footprint house: 100 blocks
% of construction material in house: $\geq 45\%$
Number of occupants per floor: 7
Bed: Nylon Wool Bed (Beginner)
Population needed to advance tech level: 96
Community Building:

School (3 Enchanting Tables)

Materials provided by villagers:

≥ 96 level 6 pop. and a School.

Temperature Sensor Fibers (Nylon 6,7)

Amplifier Block of Titanium

Processor Flask (Methane)

Block of Nickel Flask (Ethane)

Block of Chrome Beaker (Gas Oil)

Graphite Leather

Iron Block Bioreactor

Tech Level 8
House building material: Carbon Fiber Resin
Max. house height: 24 blocks
Number of floors allowed: 6
Max. footprint house: 130 blocks
% of construction material in house: $\geq 35\%$
Number of occupants per floor: 9
Bed: Nylon Silk Bed (Advanced)
Population needed to advance tech level: 128
Community Building:

Art Gallery (25 Paintings)

Materials provided by villagers:

≥ 128 level 6 pop. and an Art Gallery.

Surprise...

Tech Level 7
House building material: Stainless Steel
Max. house height: 20 blocks
Number of floors allowed: 5
Max. footprint house: 115 blocks
% of construction material in house: $\geq 40\%$ Stainless Steel
Number of occupants per floor: 8
Bed: Nylon Wool Bed (Intermediate)
Population needed to advance tech level: 112
Community Building:

Clinic (1 Bioreactor)

Materials provided by villagers:

≥ 112 level 7 pop. and a Clinic.

Temperature Sensor

Amplifier

Processor

Block of Nickel

Block of Chrome

Graphite

Iron Block

Fibers (Nylon 6,7)

Block of Titanium

Flask (Methane)

Flask (Ethane)

Beaker (Gas Oil)

Leather

Bioreactor

Hints:

- . Build the Storeroom first to receive the donations from the villagers. The Storeroom can have up to 1 Community Chest per Tech Level.
- . For a house to be valid, windows must have glass. Holes will not do.
- . When a house is validated, the information on the top left of your screen will change.
- . Increase your score and villagers' happiness by decorating the houses with plants and paintings.