**Climate Background Design Information for China**

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| **Tropical Climate – City Name: *Guangzhou*** |
| *Number of rainy days each year:* 112  *Latitude:* 23˚ North  *Altitude:* 26 feet above sea level  *Summer average temperature:* 72 ˚F  *Winter average temperature*: 72 ˚F  ***Engineering Challenge:*** You want to engineer your house to keep the people inside dry during a very big rainstorm. |

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| **Cold Climate – City Name: *Harbin*** |
| *Number of snowy days each year:* 47  *Latitude:* 45˚ North  *Altitude:* 469 feet above sea level  *Summer average temperature:* 69.4 ˚F  *Winter average temperature*: 6.4 ˚F  ***Engineering Challenge:*** You want to engineer your house to keep the people inside warm during a very cold winter, and the roof must be very strong to support (and/or shed) the weight of a lot of snow. |

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| **Desert Climate – City Name: *Urumqi*** |
| *Number of rainy days each year:* 36  *Latitude:* 47˚ North  *Altitude:* 2844 feet above sea level  *Summer average temperature:* 73 ˚F  *Winter average temperature*: 5 ˚F  ***Engineering Challenge:*** You want to engineer your house to keep the people inside cool during a very hot summer. |

**Your house should have:**

1 or 2 bedrooms

1 bathroom (which can be outside)

1 kitchen

1 living room