

Instructions for Analysis

STEP 1:

- a. Use a metric ruler to measure the minimum distance in millimeters between mountain tops.
- b. Based on these measurements, predict which populations will have the highest level of inter-breeding.

STEP 2:

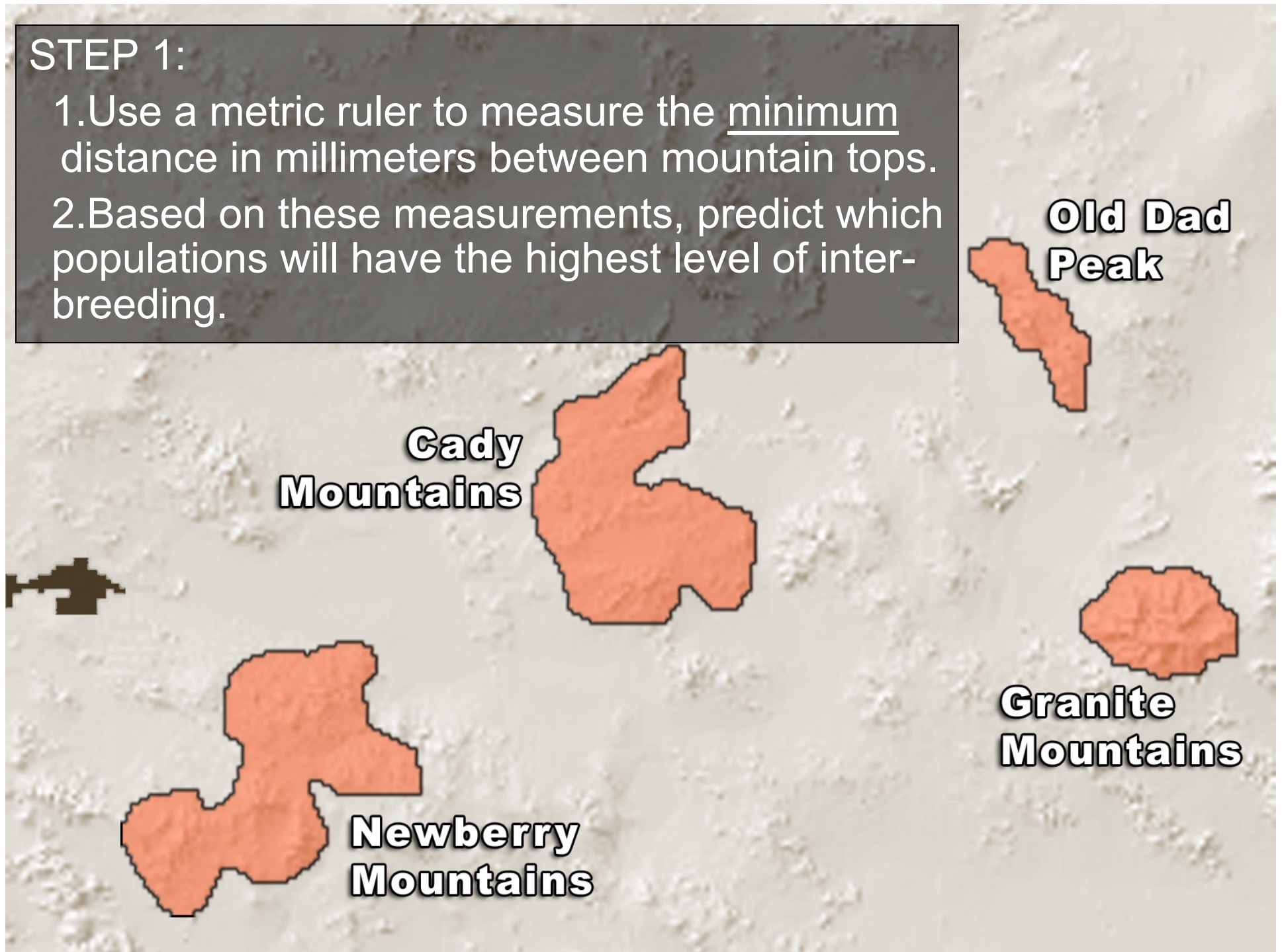
Then using the genetic data (arrows), draw double-headed arrows to connect populations to signify the actual level of breeding between populations. More arrows show more connection, i.e. more breeding; fewer arrows show less connection, i.e. less breeding.

STEP 3:

- a. Answer questions to compare your results from step 1 and step 2.
- b. Predict where the highways are by drawing them on the map.

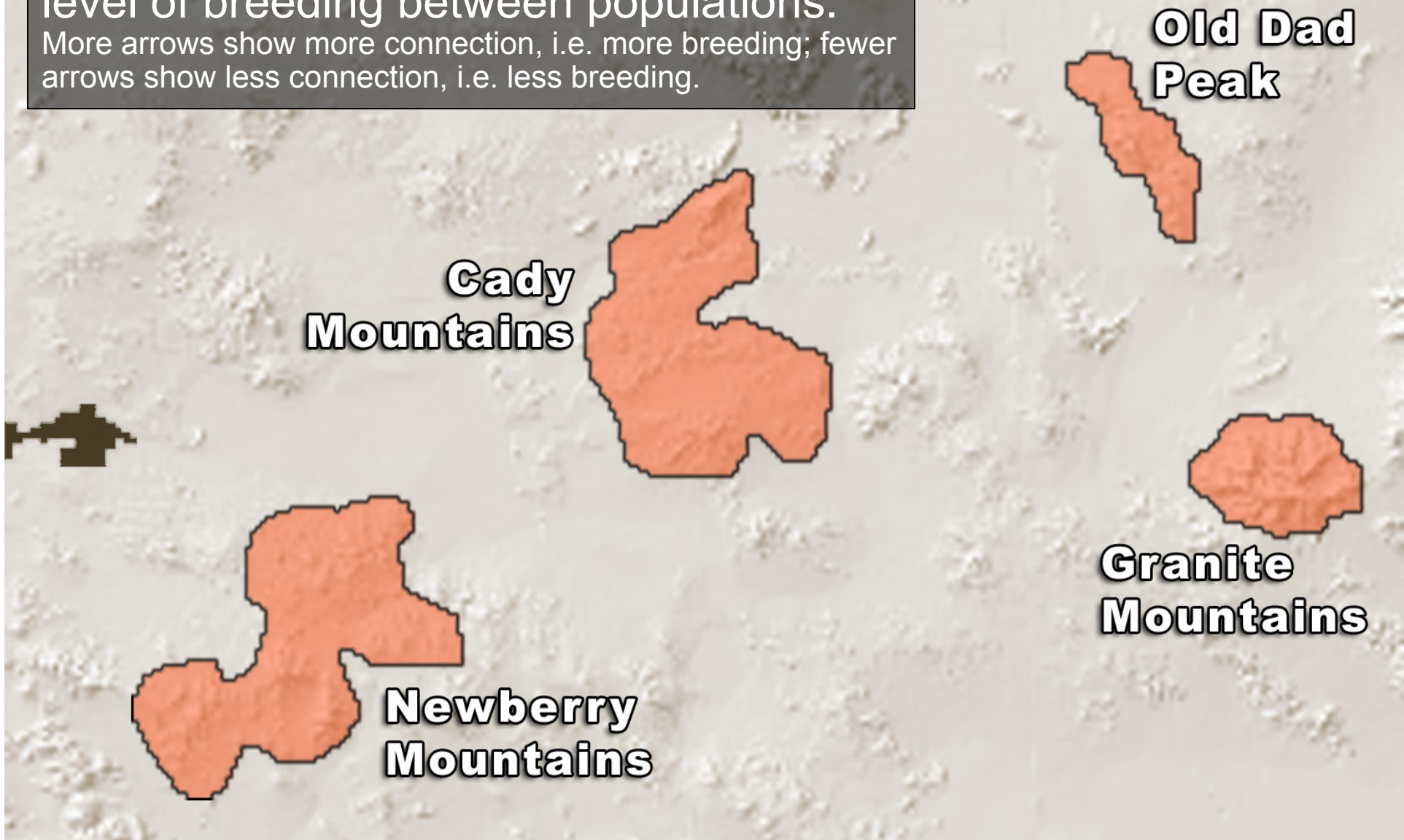
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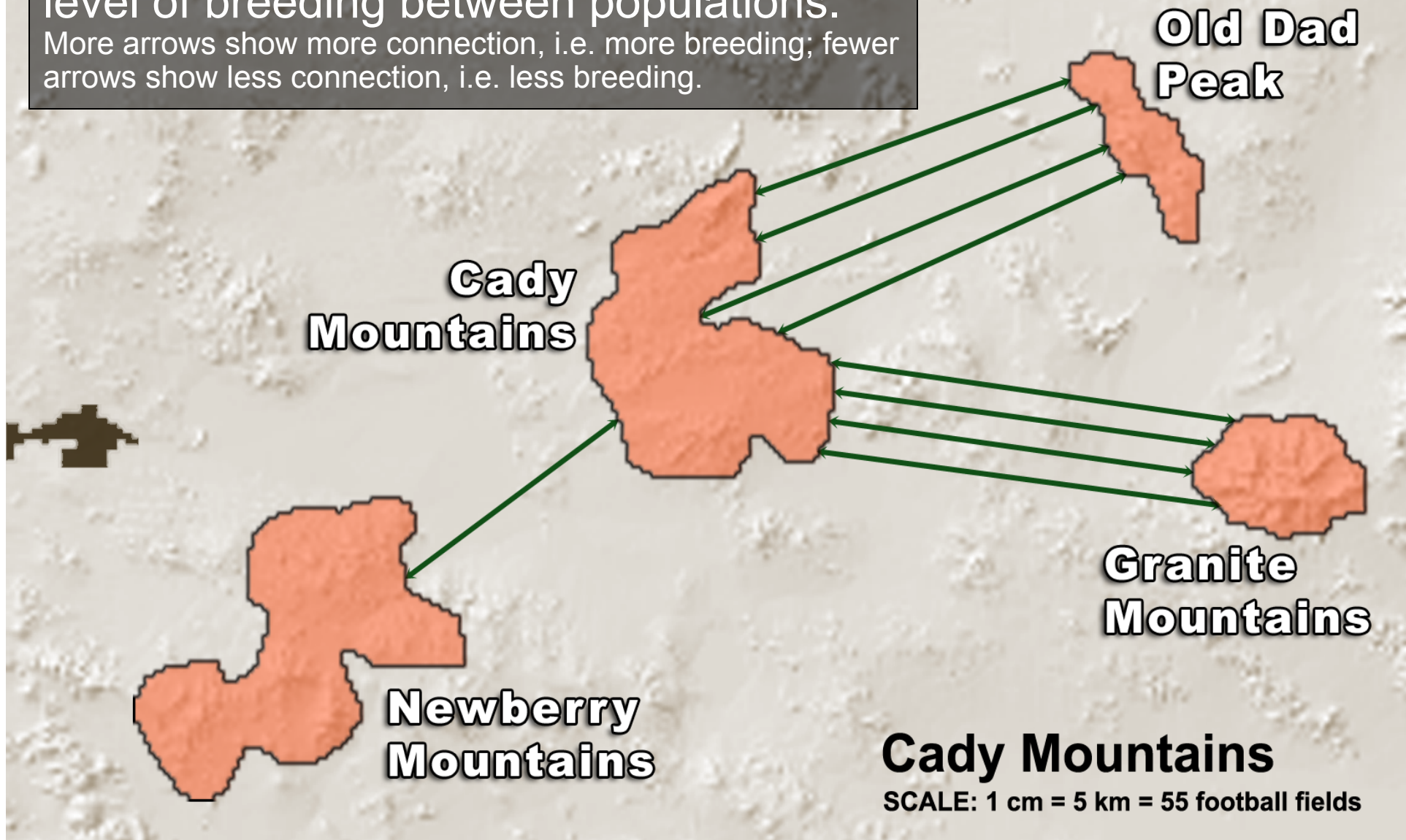
STEP 2: Using the genetic data (arrows), draw double-headed arrows to connect populations to signify the actual level of breeding between populations. More arrows show more connection, i.e. more breeding; fewer arrows show less connection, i.e. less breeding.

Breeding Evidence:	Cady sheep
Old Dad sheep	↕↕↕↕
Granite sheep	↕↕↕↕
Newberry sheep	↕



STEP 2: Using the genetic data (arrows), draw double-headed arrows to connect populations to signify the actual level of breeding between populations. More arrows show more connection, i.e. more breeding; fewer arrows show less connection, i.e. less breeding.

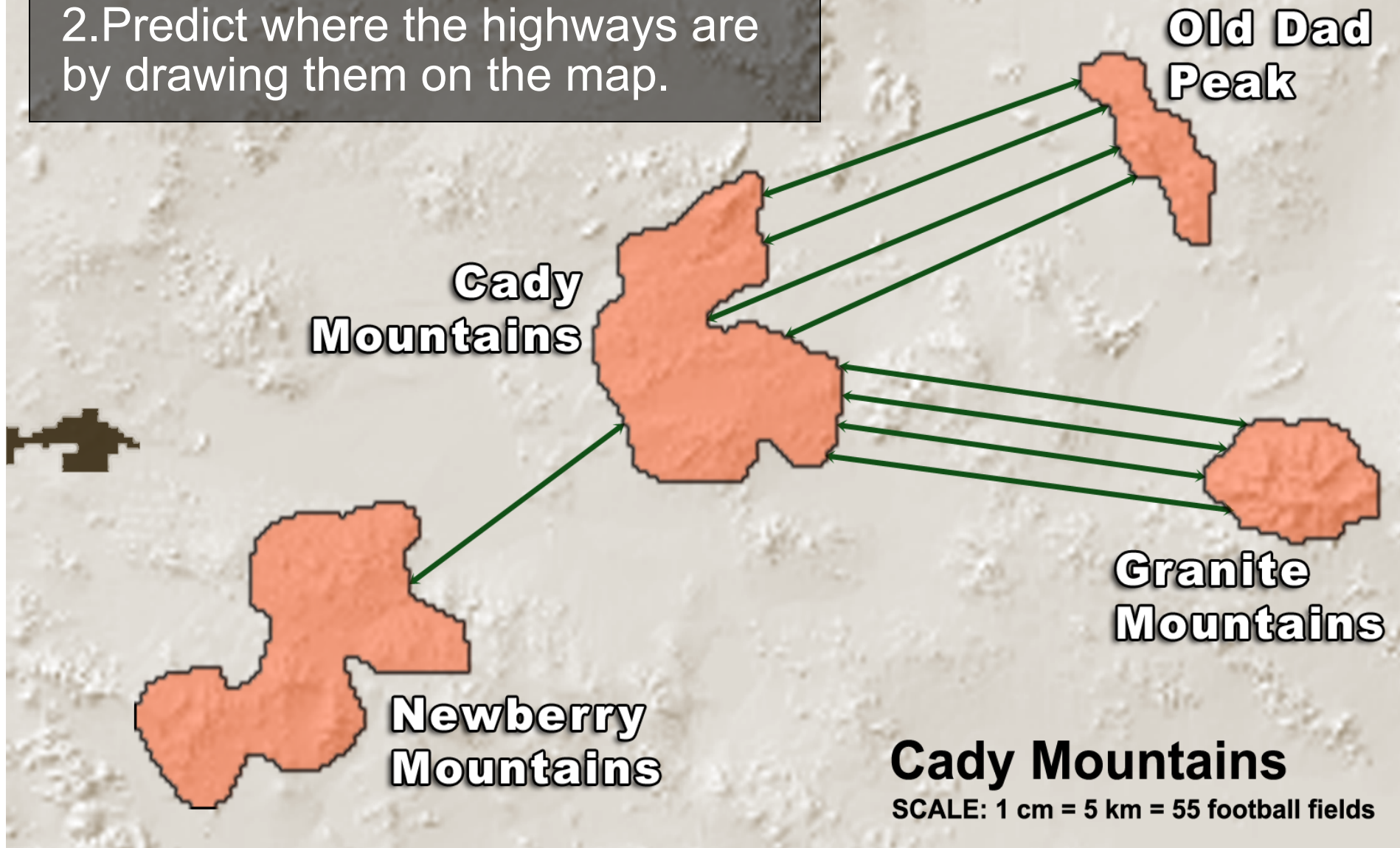
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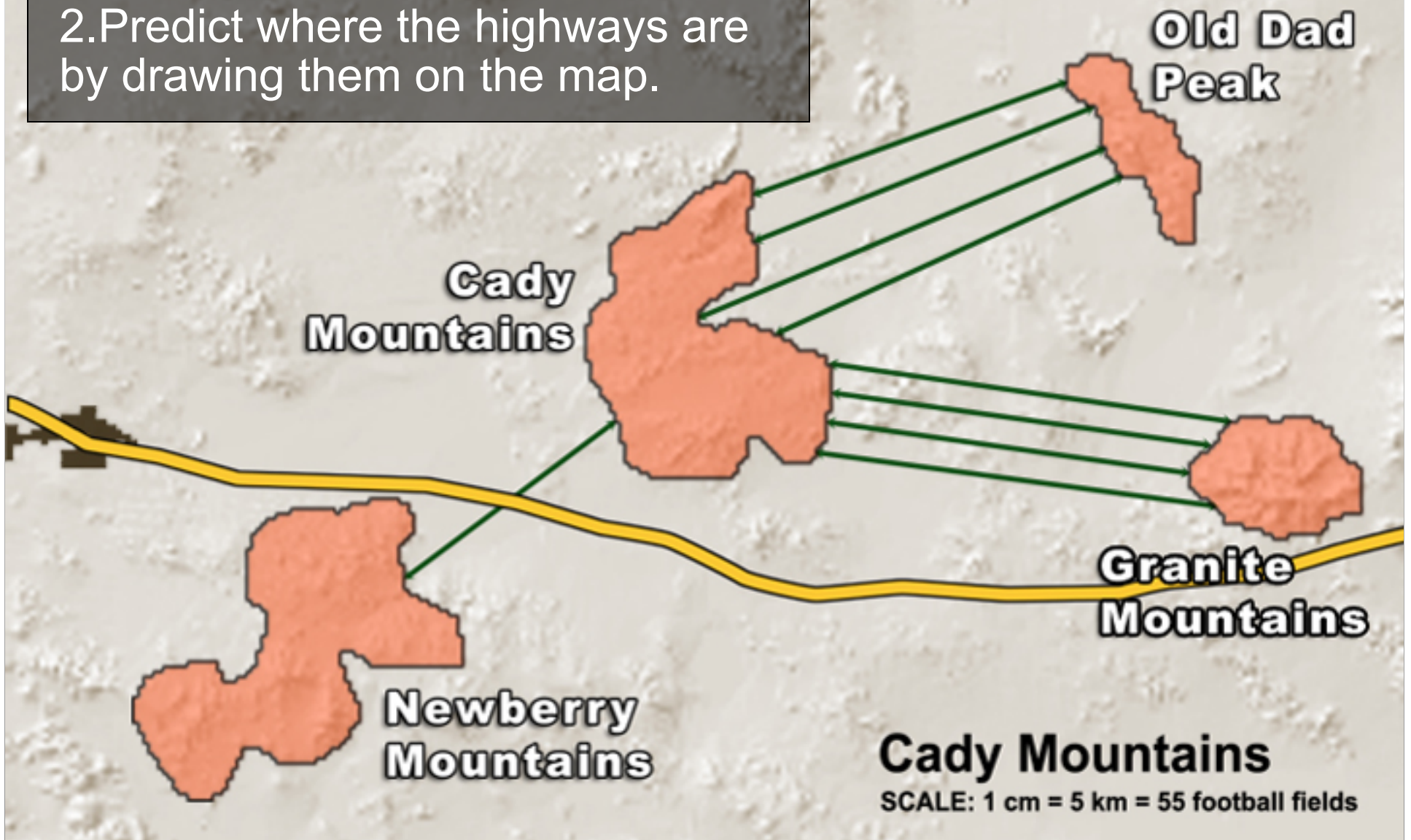
1. Answer questions to compare your results from step 1 and step 2.
2. Predict where the highways are by drawing them on the map.

Where would you put the highway?



STEP 3:

1. Answer questions to compare your results from step 1 and step 2.
2. Predict where the highways are by drawing them on the map.



After completing your analysis, transfer your data onto this overview map. Draw lines that signify the genetic data and draw highways based upon those line data.

