Student Task sheet—Creating a Neighborhood – Task #2

This activity/task follows the anticipatory activity, Pot of Gold, and Task #1, matching index card activity.

Materials: graph paper or composition notebook

Help design the layout of our new Woodland Flat’s neighborhood. Students must be able to walk less than 25 units to get to school actually walking along the streets, no cutting through yards to get there. There are 4 homes that need to be placed in the neighborhood as follows: Amy’s house, Arnold’s house, Kevin’s house and Kelly’s house.

* Amy’s parents want to live the furthest distance north from the school.
* Kevin’s parents want to live the furthest distance west from the school.
* The school is located at (-2, -2) on the blueprint for the neighborhood.
* No two homes are built within the same quadrant of the map.

Identify where each home is located by its address, ordered pair.

Started: What are the possible options for where Amy, Arnold, Kevin and Kelly could live? Is there more than one possibility for any of their homes? If so, which ones have more?

Focus: How many units from the school is Amy’s house now? Where did you choose to place Kevin’s house and how far does he have to walk?

Assess: All 4 homes are placed in different quadrants with Amy more north and Kevin more west than the others.

Advance: Is there another possible quadrant that Amy’s parents could build?

Frustrated: Remind them not to over think, but just to follow the given guidelines.

Early finishers: What other limitations would make this more of a challenge? What would happen if you had to work around a lake in this location, place a lake on the map?