

## Spatial Thinking

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Spatial Concepts	Key Questions in Geography	At a Personal Scale	Actions that Reflect Cognition
Location	Where is the place? And why is it there?	Where am I?	Tell someone else where something is.
Condition (Site)	What is at the place?	What's it like right here?	List/describe what you might see, hear, smell etc. at a place.
Connection (Situation)	How is the place linked to other places?		List/describe ways a place is linked with other places.
Comparison	How are places similar or different?		Compare conditions/connections in one place with another.
Aura (Influence)	What effect(s) does a feature have on its neighbors?		Analyze/describe how conditions in one place can affect nearby places.
Region	What nearby places are similar to this one?		Identify places that are close each other and similar or connected in some way, and draw a line to enclose them.
Transition	What is the nature of the change between dissimilar places?	What is between me and that place?	Analyze/describe how things change from one place to another.
Hierarchy	What larger area is this one inside? What smaller areas are inside it?	What larger entity am I within?	Identify sub-areas that are within your area or larger areas that your area is inside.
Diffusion	How do things spread through space?	How has my position changed?	Analyze/describe how a patterns of things expands, shrinks or changes position through time.
Analog	What distant places are analogous to this one?	Is there another place like this?	Identify places that are in similar situations on other continents or in other cities, states, or countries and therefore might also have similar conditions.
Pattern	Are there imbalances, clusters, strings, doughnuts, other patterns?		Describe the spatial pattern of something on a map.
Association (Correlation)	Are the spatial patterns similar?	What features seem to occur together?	Compute the degree of association between dissimilar features; do they tend to occur together in the same places or does one never appear close to the other or does the presence of one seem to have no relationship to the presence of the other.
Exceptions	Where are the places that do not seem to follow an observed rule?		Identify places that do not show the association or pattern that you observed in most places.
Spatial Model	What processes allow events in one place to affect other places, perhaps far away?		