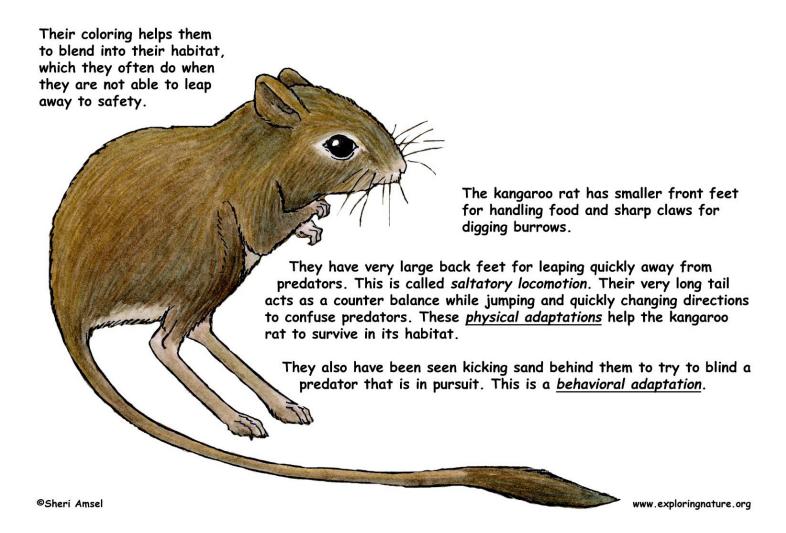
## Adaptation in the Kangaroo rat

Adaptation in a *population* of living things happens as a result of an *adaptive trait*. This is any inheritable trait that increases it's survival rate so that it can live longer, reproduce longer, and have more offspring (that also have that trait). Adaptive traits can improve animals find food, make a safer home, escape predators, survive cold or heat or lack of water.

The **kangaroo rat** look like a mouse-sized kangaroo with very large back feet for leaping quickly away from predators. This is called *saltatory locomotion*. Their very long tail acts as a counter balance while jumping and quickly changing directions to confuse predators. If a kangaroo rat cannot escape by jumping away, it will stay very still. Its fur color matches the sand and rocks where it lives in the deserts of the Southwestern U.S. This acts as camouflage and helps them to blend in. Camouflage is another important physical adaptation. It protects the kangaroo rat from hungry foxes, snakes, owls and coyotes. If the predators can't see them, they can't eat them.

The kangaroo rat has smaller front feet for handling food and sharp claws for digging burrows. All these *physical adaptations* help the kangaroo rat to survive in its habitat.

They also have been seen kicking sand behind them to try to blind a predator that is in pursuit. This is a *behavioral adaptation*.



## For Discussion and Critical Thinking:

The kangaroo rat has adaptive traits that helps it survive in its hot, dry, open desert habitat.

1. Name two of the kangaroo rat's adaptive traits and how it helps it survive:

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would the	kangaroo rat's physica	l traits not work	in a forested hal	oitat?	
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