Assessment 2: Game Design Crab Escape

P3: Game Summary

In this game the player moves a crab around the sandscape trying to catch and eat worms that live in the sand and pop up from time to time from their burrows in the sand. Each time a worm is eaten the crab's energy levels increases. Each time the crab moves its energy levels decreases. When its energy levels fall below a certain value, the crabs speed of movement decreases.

The purpose of the game is to progress to the end of the third level without being eaten by the otter. The otter loves to eat crabs, and searches for them largely using line of sight. It the otter sees a crab it will give chase. The crab's only defence is to hide behind rocks, until the otter is distracted and loses interest.

The crab successfully completes a level if it eats all the worms in that level before being caught by the otter. The quicker the crab eats the worms, the higher the score.

If the crab is eaten, it can be re-generated three times per level, but its score is decreased each time it is eaten.

P3: Use Case Diagram Visual Paradigm Standard Edition(Oaklands Colle <<Include>> Eat Worm Increase Energ Move Crab <<Extend>> <<Extend>> End Level Start Level Start Game <<Include>> Crab Actor Loose Life <<Include>> Eat Crab <<Extend>> View Instructions End Game <<Extend>> Move Otter Otter Actor

P3: Use Case Descriptions

Eat Crab Use Case

Use Case Name:	Eat Crab	Author	Derek Peacock	
Description:	When the Otter touches the crab, the crab is eaten and if the player has lives left the crab is re-generated and the level re-starts. If there are no lives left, the game ends.			
Pre-conditions	The otter touches the crab			
Post-conditions	The level re-starts or the game ends			
Normal Events	 The score is reduced If crab has more lives a. Lives are decreased by I b. All points gained in that level are lost c. The level is re-started Else the game ends 			
Alternative Events				
Screen Layout	1			