**Game AI**

Whenever an enemy needs to target the player this will be done with a sphere collider which acts as the view distance of that enemy. This can be a different size depending on the enemy.

**Lobuzz AI**

**Yellow**

The yellow Lobuzz is completely stationary and as such does not require any pathfinding or attack AI. Its only behaviour will be to float in place.

**Blue**

The blue Lobuzz will follow a predefined patrol route. To do this the Lobuzz will be given a spline to follow to define its patrol route. It will then follow this constantly.

**Green and Red**

Upon seeing the player, the Lobuzz will move towards the player. this can be done easily by using a sphere collider around the Lobuzz and upon a player entering that sphere the Lobuzz should path find to the player using the nav mesh. The red Lobuzz will stop upon reaching the player and explode after a delay instead of colliding with the player.

**Domino AI**

The Domino will move sideways to block the player within a region so it will have to move to be in front of the player on a horizontal plane. The Domino does not move forwards and backwards so will not use the nav mesh for path finding. It will use basic vector movement.

**Shew Caravan AI**

Before being attacked the shrews will follow a predefined path created by a spline. When one of the shrews is killed all the shrews behind it will panic. This will be done through a Boolean variable. In order to make them move randomly they will use a nav mesh to path towards a random position which will then change after a certain amount of time. This will make them appear to run around randomly and panic.

**Dizzy Charger AI**

This enemy charges directly at the player without consideration for obstacles. As such it will not use a nav mesh, instead following a vector directly to the player. If it collides with an obstacle it will die. For the blue and silver enemies they will generate a single vector to the player upon them entering a radius around the enemy done with a sphere collider. The red and gold variations will generate a new vector every set number of seconds to correct their path and aim at the player.

**Catapult AI**

The catapult will not move but will receive the location of the player and fire a rock at that location. This will be done using a sphere collider so that while the player is within range the catapult will fire at them.

**Boomerang AI**

The boomerang fires at the player following a wide arc. It will aim the furthest point of the arc from itself at the player and use its distance from the player as the diameter of the arc. While flying the boomerang will generate a force left or right in local space to move itself towards the player. After moving a distance relative to diameter, it will land. The blue variant will apply an additional local force following a sin wave in order to move back and forth while flying.