Object Design

Step 1 – Create the Shape object.

```
var shape = new createjs.Shape();
shape.graphics.beginFill('#ffffff');
shape.graphics.drawCircle(0, 0, 3);
```

Step 2 – Add properties to the Shape object.

```
shape.x = xP;
shape.y = yP;
shape.xVelocity = xV;
shape.yVelocity = yV;
```

Step 3 – Add functions to the Shape object.

```
shape.getLocation = function(){
return { x : this.x, y : this.y};
}

shape.update = function(){
this.x += this.xVelocity;
this.y += this.yVelocity;
}
```

Step 4 – Return the Shape object.

```
19 return shape;
```

Completed function looks like this -

```
function new_Bullet( xP, yP, xV, yV){
        var shape = new createjs.Shape();
        shape.graphics.beginFill('#ffffff');
        shape.graphics.drawCircle(0, 0, 3);
        shape.x = xP;
        shape.y = yP;
        shape.xVelocity = xV;
        shape.yVelocity = yV;
10
11
        shape.getLocation = function(){
            return { x : this.x, y : this.y};
12
13
14
        shape.update = function(){
15
            this.x += this.xVelocity;
            this.y += this.yVelocity;
        3
18
19
        return shape;
20
```

Constructing the Object

```
var bullet = new_Bullet(curX, curY, xVel, yVel);
```

Our game stores Objects like these globally.

```
var Asteroid_List;
var Asteroid_Generator;
var Bullet_List;
var Player_Object;
var Score_Object;
```

State Diagram

