

```

1  package ch.hevs.gdx2d.lunar.main;
2
3  import java.util.Random;
4
5  import com.badlogic.gdx.graphics.Texture;
6  import com.badlogic.gdx.math.Vector2;
7
8  import ch.hevs.gdx2d.lib.GdxGraphics;
9  import ch.hevs.gdx2d.lib.interfaces.DrawableObject;
10 import ch.hevs.gdx2d.lunar.physics.Constants;
11 import ch.hevs.gdx2d.lunar.physics.PhysicalObject;
12
13 public class Gegner extends PhysicalObject implements DrawableObject{
14
15     private boolean destroyed;
16
17     private static final Random rand = new Random();
18
19     private Texture meteor;
20
21     public Gegner(Vector2 p) {
22         super(p, new Vector2(rand.nextFloat() * rand.nextInt(50) *
23             (rand.nextBoolean() ? 1 : rand.nextBoolean() ? 1 : -0.05f),
24                 rand.nextFloat() * rand.nextInt(10) * (-1)), Constants.GEGNER_MASS,
25             40, 40);
26         meteor = new Texture("data/images/meteor.png");
27         destroyed = false;
28     }
29
30     @Override
31     public void step() {
32         this.force.y = -Constants.GRAVITY * this.mass;
33     }
34
35     @Override
36     public void draw(GdxGraphics arg0) {
37         if (!destroyed) {
38             arg0.draw(meteor, position.x - 25, position.y - 30, 50, 50);
39         }
40     }
41
42     @Override
43     public void removedFromSim() {
44         destroyed = true;
45     }
46
47     @Override
48     public boolean notifyCollision(int energy) {
49         return (energy >= Constants.DESTRUCTION_ENERGY);
50     }
51 }

```