GoldenEye

1. Which country does this movie take place in (6)? ...........................................................

2. Freefall: James jumps off and falls for 25 seconds. What is his speed now? (8) .....................

3. What does he set the explosive’s timer to (12)? ........................................................................

4. When James chases the plane on his motorcycle, who falls the fastest: James, motorcycle, or plane?
   .................................................................................................................................
   Why or why not? ................................................................................................................
   ........................................................................................................................................
   ........................................................................................................................................

5. When the red Ferrari drives off the road, what Newton’s Law explains why the car keeps turning?
   ........................................................................................................................................
   What stops the turning? (20) ...............................................................................................

6. What does James see parked on top of the boat (27)? ............................................................

7. The presentation is for the first prototype of the “Tiger helicopter.” It is not susceptible to
   .................................................................................................................................
   interference (31).

8. There are 2 satellites, Mishka and Petya. (Remember OCTOBER SKY?)
   “They run a ___________ min earth orbit at ___________ km” above the earth surface (36).

9. What did Mr. Tanner find in the middle of Russia (42)? ..........................................................

10. Xenia shoots at the air conditioning. Where did Natalya actually hide (43)? ..............................

11. EMP stands for electromagnetic ______________________.(48)
    It is a radiation surge that destroys anything with an _____________________________ circuit (48)

12. Q says that James has a license to kill, but not to break ______________________    __________ (56)?

13. How many clicks does it take to arm and disarm the pen grenade (57)? ...................................

14. What tool did they finally use to restart his car (1:00)? ..........................................................

15. Natalya meets with Boris in the church. Who is he now working for (1:03)? ...............................

16. Who does James find at the junkyard (1:13)? ...........................................................................

17. How did James and Natalya get out of the helicopter (1:17)? ...................................................

18. Freefall: If the ejector seat was in the air for 8 seconds, what was its initial velocity when ejected?
    (remember tennis ball lab) ...............................................................................................
    ........................................................................................................................................

19. When James jumps through the window, he lands on something soft. What does this have to do with Impulse
    (1:24)? (force? time?) ........................................................................................................
    ........................................................................................................................................

20. During the car chase there are lots of collisions. (1:25) Give an example below of:
    -Elastic collision ..............................................................................................................
    ........................................................................................................................................
    -Inelastic collision.............................................................................................................
    ........................................................................................................................................
21. James hits a flying horse statue. Use Newton’s 1st Law (inertia) to explain how the horse ended up on his car (1:29)?

22. When the police car the the horse come to final stop, what kind of collision was that (1:30)?

23. When we have the train/tank collision, which one had more momentum (1:33)?

24. When we have the train/tank collision, which one had more impulse (1:33)?

25. Where in the world is Boris hiding (1:37)?

26. James use laser to cut a hole out of the train. What kind of energy is a laser (1:38)?

27. What are they looking for in the jungles of Cuba (1:41)?

28. Use Newton’s 1st law to explain why the plane finally stopped (1:46)?

29. When Xenia rapels down the helicopter, when does she have... (1:47)
   The most PE -
   The most KE -

30. What is hidden inside the lake (1:50)?

31. When they slide down the lake, they gain speed. Their ________________ energy increases (1:52).

32. What city is the bad guys next target (1:53)?

33. Why does Bond keep watching Boris click the pen (2:00)?

34. What simple machine moves the antenna on the dish (2:02)?

35. When 006 Alec falls off the transmitter, he gains ________________ m/s of speed every second. (2:08)

   Pick 3 from the above list that applies and explain WHY ...