Edison, The Man 1940

(Spencer Tracy) [1h 47m]

1. What years did the “Golden Jubilee of light span?
2. What is Edison’s formula for success?

3. What is the greatest invention according to Edison and why?

4. According to Edison, what is the most valuable thing in the world and why?

5. What were the hosts of the Golden Jubilee of light actually honoring Edison for?

6. What was Edison’s first invention? And was it received?

7. What physical ailment did Edison suffer from?

8. In what city did Edison begin his experiments and inventing career?

9. Which scientist’s book did Edison read, talking about an embryo of electric light?

10. What would Edison repair in order to gain money for his experiments?

11. What did General Powell give Edison in return for repairing the item?

12. How did Edison meet Mary Stillwell and what did he do for her?

13. How did Edison and Mary Stillwell communicate within the building?

14. How much money did General Powell and Mr. Taggert offer Edison for his invention?

15. What did Edison and Mary Stillwell do after the deal with Powell?

16. What was the name of the complex Edison built for his home and laboratory?

17. Why was Edison given a “writ” that would eventually lead to his arrest?

18. How would Edison pay for all his debt (suggested by his uncle)?

19. Who would give Edison the funds he needed?

20. How much did Taggart offer to Edison? What was the problem?

21. How did Edison respond to Taggart’s offer?

22. What was Edison forced to do regarding his workers and how did he do it?

23. How did the workers respond after a period of time?

24. What did the workers discover along with Edison that was eventually invented?

25. What did Edison’s uncle tell the press about the electric light?

26. How did the scientific community respond to such a claim?

27. What was the factor that Edison thought of regarding the light and testing the brightness of materials they were using?

28. How many experiments had Edison performed to this point in discovering the electric light?

29. What word did Edison make up that describes the element within a candescent light? Filament

30. What did the young man do with his first opportunity to help the experiments?

31. How long did it take to make one light bulb?

32. How did Edison respond to the young man when the next bulb was ready?

33. What three things were used to make the first working filament in the light?

34. How many hours did the first electric bulb burn?

35. When the electric light was valid, what did Edison plan to do with it?

36. How did the business men, especially the gas companies, react to Edison’s discovery?

37. What law did Mr. Taggart read at the hearing to limit Edison’s chance to complete the project he promised?

38. What were three advantages of the electric light?

a)

b)

c)

39. How long did the businessmen give Edison to complete the New York City project?

40. Why did the “dynamos” stop working on September 4, 1882 when first tested?

41. How would they repair the problem with the dynamos?

 42. Name three inventions of Edison.

a)

b)

c)

43. How many patents did he gain with his inventions?

44. What two things did Edison say must be kept in balance?

Edison, The Man

(Spencer Tracy)

1. What years did the “Golden Jubilee of light span? **1879-1927**

2. What is Edison’s formula for success?

**1% inspiration and 99% perspiration**

3. What is the greatest invention according to Edison and why?

#  A blade of grass because it grows and turns green … how is that possible?

4. According to Edison, what is the most valuable thing in the world and why?

####  Time is the most valuable thing because all the money in the world cannot buy it

5. What were the hosts of the Golden Jubilee of light actually honoring Edison for?

 **The freedom of the mind**

6. What was Edison’s first invention? And was it received?

**A vote recorder for Congress which they rejected**

1. What physical ailment did Edison suffer from? **Hearing loss**
2. In what city did Edison begin his experiments and inventing career?

**New York**

1. Which scientist’s book did Edison read, talking about an embryo of electric light?

**Faraday**

1. What would Edison repair in order to gain money for his experiments?

 **A stock indicator**

1. What did General Powell give Edison in return for repairing the item?

Edison could work in his machine shop to do experiments on the stock indicator

1. How did Edison meet Mary Stillwell and what did he do for her?

##### Edison met her in the rain under her umbrella. He fixed her umbrella

1. How did Edison and Mary Stillwell communicate within the building?

###### Morse code

1. How much money did General Powell and Mr. Taggert offer Edison for his invention?

**$40,000**

1. What did Edison and Mary Stillwell do after the deal with Powell?

 **Got married**

1. What was the name of the complex Edison built for his home and laboratory?

 **Menlo Park**

1. Why was Edison given a “writ” that would eventually lead to his arrest?

**Debt to suppliers**

1. How would Edison pay for all his debt (suggested by his uncle)?

**Invent the electric light**

1. Who would give Edison the funds he needed? **Mr. Taggert**
2. How much did Taggart offer to Edison? What was the problem?

**$100,000 but Taggart wanted to dictate what Edison could work on**

1. How did Edison respond to Taggart’s offer?

**He refused Taggart’s offer**

1. What was Edison forced to do regarding his workers and how did he do it?

###### He paid them their wages and let them go

1. How did the workers respond after a period of time?

###### They came back to work anyways

1. What did the workers discover along with Edison that was eventually invented?

###### The talking machine – record player

1. What did Edison’s uncle tell the press about the electric light?

###### He told the press that the electric light was completed

1. How did the scientific community respond to such a claim?

###### They scoffed and attacked Edison’s reliability as a scientist

1. What was the factor that Edison thought of regarding the light and testing the brightness of materials they were using?

The “filament” metal needed to be lit in a vacuum

1. How many experiments had Edison performed to this point in discovering the electric light?

**9000**

1. What word did Edison make up that describes the element within a candescent light? Filament

**filament**

1. What did the young man do with his first opportunity to help the experiments?

###### He was careless and tripped, breaking the bulb

1. How long did it take to make one light bulb? **One day**
2. How did Edison respond to the young man when the next bulb was ready?

###### He gave him the bulb to carry again

1. What three things were used to make the first working filament in the light?

###### Sewing thread, carbon and a vacuum

1. How many hours did the first electric bulb burn? **40 hours**
2. When the electric light was valid, what did Edison plan to do with it?

Light up New York City

1. How did the business men, especially the gas companies, react to Edison’s discovery?

**They opposed his ideas because they didn’t want to lose money**

1. What law did Mr. Taggart read at the hearing to limit Edison’s chance to complete the project he promised?

All contracts must have a time limit

1. What were three advantages of the electric light?

a) **no gas fumes**

b) **no oil fumes and soot**

c) **safer, brighter light**

1. How long did the businessmen give Edison to complete the New York City project?

**6 months**

1. Why did the “dynamos” stop working on September 4, 1882 when first tested?

The engines were running independently

1. How would they repair the problem with the dynamos?

Use a 1 inch thick, steel rod to connect all the engines to run together

1. Name three inventions of Edison.

a) **mimeograph** **motion pictures**

b) **ediphone**

c) **electric motor phonograph**

1. How many patents did he gain with his inventions?

**1150**

1. What two things did Edison say must be kept in balance?

Ingenuity and humanity