



## **MANKIND: THE STORY OF ALL OF US**

### **EPISODE 12: NEW FRONTIERS**

**THIS WORKSHEET SET INCLUDES, IN ORDER, A 47-QUESTION FILL-IN-THE-BLANK, TRUE OR FALSE, AND SHORT ANSWER WORKSHEET. THE SET ALSO INCLUDES, IN ORDER, AN ANSWER KEY.**

EPISODE SUMMARY FROM THE HISTORY CHANNEL: Mankind builds increasingly complex systems, feeding billions of people, reshaping the landscape and re-engineering the human body. Modern food cultivation enables population explosions while uranium enables incredible destruction. Mankind travels to the moon and performs heart transplants. Globally, people continue to struggle for civil rights, equality and peace. 100,000 years ago there were a few thousand hunter-gatherers on the African savannas. Today there are 7 billion of us in every corner of the globe.

**Keys Include: Uranium, DNA, Vaccination, Nitrogen, Space Travel**

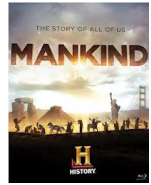
**Terms to define: ravage, hybrid, tundra, permafrost, integrated, ballistics, cosmic, apocalyptic, pervade, protest, innovation, pandemic**



Name \_\_\_\_\_ Date \_\_\_\_\_ # \_\_\_\_\_

***Mankind: The Story of All of Us***  
**Episode 12: New Frontiers**

from *The History Channel Series Mankind: The Story of All of Us*



**History Channel episode description:** Mankind builds increasingly complex systems, feeding billions of people, reshaping the landscape and re-engineering the human body. Modern food cultivation enables population explosions while uranium enables incredible destruction. Mankind travels to the moon and performs heart transplants. Globally, people continue to struggle for civil rights, equality and peace. 100,000 years ago there were a few thousand hunter-gatherers on the African savannas. Today there are 7 billion of us in every corner of the globe.

**INCREASING FOOD SUPPLY**

**0:00**

1. Today, over \_\_\_\_\_ billion humans on planet earth. In just four generations, our population has grown by over \_\_\_\_\_ billion. Faster in the first \_\_\_\_\_ years of the twentieth century than in the previous \_\_\_\_\_.
2. What happened to the Midwest in 1935? \_\_\_\_\_  
\_\_\_\_\_
3. Where do many Midwestern families head? \_\_\_\_\_
4. What wonder crop does Roswell Garst believe will save the Midwest?  
\_\_\_\_\_
5. Why are farmers initially reluctant to buy the seed from Garst? \_\_\_\_\_  
\_\_\_\_\_
6. Garst gambles everything. He gives farmer the seed for \_\_\_\_\_ in return for a share of their \_\_\_\_\_. Across fifty counties, in \_\_\_\_\_ states, during the worst drought every, miraculous \_\_\_\_\_.
7. What other revolutionary product does Garst sell? \_\_\_\_\_
8. Today almost every industrial \_\_\_\_\_ uses nitrogen fertilizer. Garst becomes an international \_\_\_\_\_ consultant and one of the largest \_\_\_\_\_ suppliers in the world.
9. With new crops and \_\_\_\_\_, we've grown more in the last \_\_\_\_\_ years than in the previous \_\_\_\_\_.

## ROAD BUILDING BOOM

8:00

10. 1942. Mankind's first truly global \_\_\_\_\_. In Europe, \_\_\_\_\_ Germany dominates. In the Pacific, Imperial \_\_\_\_\_. The largest state in the U.S., \_\_\_\_\_, dangerously close to Asia and isolated.
11. Now, \_\_\_\_\_ American soldiers blaze an impossible trail, the Alcan Highway, to link \_\_\_\_\_ to west coast \_\_\_\_\_ and the rest of the \_\_\_\_\_. An engineering challenge that will connect a \_\_\_\_\_.
12. What are four challenges or obstacles the men faced while building the Alcan Highway?
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
13. True or False. 1/3 of the Alcan Highway workforce in Alaska was African American soldiers.
14. What obstacle did the army encounter that stalled the highway? \_\_\_\_\_
15. True or False. General Hoag told his men to ditch the bulldozers and use tree trunks and branches to finish the Alcan Highway.
16. With \_\_\_\_\_ closing in, two teams, one \_\_\_\_\_ and one \_\_\_\_\_, battle the weather to \_\_\_\_\_ the final stretch.
17. What happened on October 29, 1942? \_\_\_\_\_  
\_\_\_\_\_
18. Within six years, the U.S. Army is racially \_\_\_\_\_. The Alcan Highway complete is part of a \_\_\_\_\_ mile road, the world's longest drivable route, running the length of the \_\_\_\_\_.
19. Within half a \_\_\_\_\_, the world is \_\_\_\_\_ in a network of roads long enough to stretch to the \_\_\_\_\_ and back \_\_\_\_\_ times.

## NUCLEAR POWER

16:21

20. August 6, \_\_\_\_\_. Two miles above the \_\_\_\_\_ Ocean, bomber pilot Col. Bob Tibbets, 30 years old, a military prodigy, is on a secret mission to end \_\_\_\_\_.
21. What weapon is the ultimate projection of power? \_\_\_\_\_
22. What is the code name of the bomb on Tibbet's plane? \_\_\_\_\_
23. What is the bomb's target? Hiroshima, \_\_\_\_\_
24. The core of the bomb, \_\_\_\_\_. Born in a cosmic explosion \_\_\_\_\_ billion years ago before the birth of our planet. Dormant until scientists split its \_\_\_\_\_ unleashing an apocalyptic power to annihilate our \_\_\_\_\_ or fuel our \_\_\_\_\_.
25. Dawn, 850 miles from \_\_\_\_\_, an American B-29 bomber, the Enola Gay, carries the most destructive \_\_\_\_\_ in the history of mankind.
26. 9:14 A.M. A sixty second \_\_\_\_\_ tone. Below them, a city of \_\_\_\_\_ people. Tibbets has \_\_\_\_\_ to escape the blast zone. An explosion \_\_\_\_\_ times hotter than the surface of the \_\_\_\_\_. The bomb kills more than \_\_\_\_\_ instantly. Three days later, a \_\_\_\_\_ atom bomb. \_\_\_\_\_ surrenders.
27. Today, there are over \_\_\_\_\_ nuclear warheads able to destroy our species \_\_\_\_\_ over.
28. What is the third largest generator of electricity? \_\_\_\_\_
29. In the twentieth century, \_\_\_\_\_ and \_\_\_\_\_ are the keys to enhancing our world.

## ORGAN TRANSPLANTATION

25:20

30. What is Barnard planning to do in Capetown in 1967? \_\_\_\_\_
31. What new technology is key to the operation? \_\_\_\_\_
32. True or False. Barnard had done 50 heart transplants on dogs and just as many on humans.
33. How many times does the human heart beat in an average life? \_\_\_\_\_
34. What will the life support machine do for Louis Washkansky?  
\_\_\_\_\_
35. True or False. The donor heart immediately begins to beat on its own once the life support machine is turned off (the first time).
36. How many heart transplants a year do U.S. surgeons perform? \_\_\_\_\_

MASS MEDIA

37. Why are 600 African Americans marching in Selma, Alabama in 1965?

38. Racism rules in the \_\_\_\_\_. Only \_\_\_\_\_ of blacks in the southern states are registered \_\_\_\_\_.

39. White authorities block their path with \_\_\_\_\_ and \_\_\_\_\_ intimidation. The only option, \_\_\_\_\_.

40. What was the group's destination? \_\_\_\_\_

41. Why does Jim Clark deputize every white male over 21? \_\_\_\_\_

42. True or False. The protestors are given a three-minute warning to disperse and go home, but when they refuse the police attack ninety seconds later.

43. True or False. Laurens Pierce videotapes the attack and rushes the footage to New York.

44. \_\_\_\_\_ minutes of raw footage interrupts ABC's Sunday night \_\_\_\_\_. The birth of breaking TV \_\_\_\_\_. By 1965, 9 out of 10 American families own a \_\_\_\_\_. Over 70% of the \_\_\_\_\_ population, watch the evening news. All \_\_\_\_\_ networks show the Selma violence. \_\_\_\_\_ million viewers.

45. Within \_\_\_\_\_ days, President Lyndon Johnson proposes the Voting Rights Act, outlawing voter \_\_\_\_\_. Landmark legislation. A turning point for Civil \_\_\_\_\_ in America.

46. Media for the \_\_\_\_\_ means repression won't go \_\_\_\_\_. In a world of instant communication, everyone has a \_\_\_\_\_.

47. We are the product of our \_\_\_\_\_. 100,000 years ago the emergence of an extraordinary \_\_\_\_\_ ... A hunger to survive, fuels a power to \_\_\_\_\_ ... Our thirst for knowledge. A quest to \_\_\_\_\_ ... We forge \_\_\_\_\_, but contact can bring \_\_\_\_\_ ... Mankind's most enduring enemy, \_\_\_\_\_ ... Yet, in our \_\_\_\_\_ moments, we find enlightenment, and with all we've learned we face the \_\_\_\_\_ ... Now, a new journey into inner \_\_\_\_\_ ... That same instinct to \_\_\_\_\_ ourselves, will fuel the exploration of our \_\_\_\_\_, will unlock the power of the \_\_\_\_\_, and reach out into \_\_\_\_\_ ... The next step, a new \_\_\_\_\_ ... The story of mankind is only just \_\_\_\_\_.