<https://www.youtube.com/watch?v=0NbBjNiw4tk> This video is a little out of date.

Michio Kaku: The Universe in a Nutshell

Answer the following questions from the video

1. What has Physics done for me/you – list at least 10 things?
2. What was Einstein’s unfinished homework
3. Who was responsible for Flash Gordon’s success?
4. What are some of the Science Fiction problems that Physics might solve given enough time?
5. What problem did Aristotle pose?
6. What scientific sign was sewn into the Bayeux Tapestry?
7. When was this Astronomical object seen again?
8. Who answered the questions of the comets?
9. What is freefall?
10. What are the 4 forces of Nature (occurs in several places in the video)
11. What telescope did Newton invent?
12. What wealthy business man sponsored Newton and what did it allow him to publish (if I had £6k spare I would have bought one!)
13. When we launch a spaceship why do we use Newton’s Laws and not Einstein’s?

From 13 minutes in

1. How many laws of Motion did Newton produce?
2. Write out Newton’s laws of motion.
3. What was Aristotle’s law of motion?
4. What massive revolution happened because of Newton’s Laws of Motion?
5. What don’t you die if you were in a plane as it was struck by lightning?
6. What amazing discovery did James Clerk Maxwell discover?
7. What is the consequences on Earth of James Clerk Maxwell’s equations?
8. What are the third and fourth forces of Nature?
9. How long would the sun burn if it was made of coal or oil?
10. What did Einstein show about the speed you travel at and then mass you are?
11. What does E=mc2 mean (state what each letter means?)
12. What is the proper name of a particle smasher?
13. What was the consequences on his house of Prof Kaku’s atom smasher?
14. What is antimatter?

NB The Higg’s Boson was discovered in 2012 and has been detected several times since.

1. What provides the greatest energy source known in the universe?
2. What is the “Particle Zoo”?
3. What is string theory based on?
4. When don’t Einstein’s equations of motion work?
5. Write down 3 things about the Multiverse theory.
6. What is a wormhole?
7. What might wormholes be used for?
8. What is the likely fate of the Universe?
9. What percentage of the universe is made of each matter?

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