

Name _____ Per. ____ Date _____

The Universe: Science Fiction/Science Fact

- 1) What is science fiction's answer to transportation problems?
- 2) How does a "Star Trek" transporter work?
- 3) How much energy would you need to "transport" a person?
- 4) How much data storage would one person take-up?
- 5) What is the Heisenberg uncertainty principle?
- 6) How can entanglement help transport information?
- 7) What is a black hole?
- 8) What were the fears about colliding particles together at CERN?
- 9) How does a black hole grow?
- 10) What would be the first indication that a black hole was on a collision course with Earth?
- 11) How is the way that "Armageddon" dealt with an asteroid collision a bad idea?
- 12) What is terraforming?
- 13) What would be the first step to making Mars viable for humans?

- 14) How does physics prevent faster than light travel?
- 15) What are “di-lithium” crystals?
- 16) How could you travel faster than the speed of light?
- 17) What are ion drives?
- 18) What is Wells’ “War of the Worlds” really about?
- 19) What is the Fermi paradox?
- 20) What happens to radio waves as they get farther from Earth?
- 21) Explain the Drake equation.
- 22) What is the difference between Einstein’s time machine and Dr. Brown’s time machine?
- 23) What is the grandfather paradox?
- 24) How can the “multiverse” accommodate travelling back in time?
- 25) How does science “trump” science fiction with communications?