Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Movie Notes: Sex in Space**

1. When scientists envision our future in space they see \_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the moon, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on Mars, and eventually human expansion \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. What is the #1 enemy to having sex in space? (Which law?)
3. What is the two suit?
4. How does G-force 1 create the effects of zero gravity? Draw it too!
5. How many tries does it take for them to have a “successful docking”?\_\_\_\_\_\_\_\_

1. What are the effects to humans living in a microgravity environment?
	1. Bones-
	2. Heart-
	3. Skeleton-
	4. Red cell-
	5. Plasma-
2. The 2nd problem with humans in space is what? ­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	1. It causes what?
		1. S\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What did the Medaka Fish study tell us about reproduction in space?
4. What did the “rat” study show us about reproduction in space?
	1. Babies…
	2. Male rats flown in space…
5. *True* ***or*** *False:* No animal test has every taken an animal through the entire reproduction process in space.
6. The “Viagra Effects” in space could be caused by what? Would it make it easier or harder to have sex in space for a man?
7. What role does gravity play on a developing fetus?
8. What was found out about developing rat embryos in space?
	1. A 13-17% decrease in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Parts of the spine were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. The left ventricle of the heart was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. How would giving birth in space be different? What is needed? Design?
10. What problems would humans have if they are born/live in space and wanted to return to Earth?
11. How can we simulate gravity in space?
12. Why is it important for humans to get off Earth? (Explain single point failure)
13. What is NASA’s take on human sexuality in space?
14. Where is a good place on Earth that crews could use to simulates Mars?
15. Has sex already happened in space among humans? Explain….
16. What are other methods for having sex in space beside the 2-suit
	1. The 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(describe)
	2. Restraining (list all)
17. What are Virgin Galactic Plans for space flight?
18. What would be on a Space Yacht? (describe each)
	1. D\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:
	2. H\_\_\_\_\_\_\_\_\_ S\_\_\_\_\_\_\_\_\_:
	3. S\_\_\_\_\_\_\_\_\_\_\_\_\_\_ T\_\_\_\_\_\_\_\_\_\_\_\_\_\_: