

### 3.1 Bill Nye- Fluids (video worksheet)

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Fluids \_\_\_\_\_, like water.
2. Everything we touch is either a \_\_\_\_\_, \_\_\_\_\_, or a \_\_\_\_\_.
3. Liquids and gases are \_\_\_\_\_.
4. We can \_\_\_\_\_ through fluids, like swimming.
5. The marbles are like \_\_\_\_\_ of a \_\_\_\_\_.
6. Fluids are \_\_\_\_\_, that's why they rise. Then, they \_\_\_\_\_ when they \_\_\_\_\_.
7. When a solid passes through a fluid there is \_\_\_\_\_ (friction).
8. Biking helmets are shaped to \_\_\_\_\_ drag.
9. The \_\_\_\_\_ of an object has a large effect on the resistance on it.
10. How can big, heavy planes fly? The air gets \_\_\_\_\_ back by the large fans. Air is pushed \_\_\_\_\_ and \_\_\_\_\_ while the plane is pushed \_\_\_\_\_ and \_\_\_\_\_.
11. \_\_\_\_\_ makes the wind blow and ocean currents.
12. Hot fluids \_\_\_\_\_ colder fluids.
13. Warmer fluids have \_\_\_\_\_ molecules.
14. \_\_\_\_\_ holds water together.
15. The viscosity of a liquid refers to how \_\_\_\_\_ it is; how easily it \_\_\_\_\_.
16. When things rub together there is \_\_\_\_\_.
17. NOW! Fluids can \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
18. What is Bill in at the end of the show? \_\_\_\_\_.