Name			

## **Sorting Tidal Influences**



Tides on Earth are caused by **gravity pulling on the oceans**. The Moon is the main driver of daily tides, while the Sun also plays a role. Sometimes their pulls combine, and sometimes they work against each other. By sorting the causes, we can better understand how tides change.

Below is a list of tidal influences. Decide whether each one is mainly caused by the **Moon**, the **Sun**, or **Both**. Write your answers before each number.

## **Tidal Influences**

- 1. Daily rise and fall of the oceans
- 2. Strong spring tides during new and full moons
- Neap tides with the smallest difference between high and low water
- 4. Two high tides and two low tides each day
- 5. Slight additional pull that makes tides higher or lower depending on alignment
- 6. Strongest overall effect on ocean bulges
- 7. Gravitational pull working with the Moon during spring tides
- 8. Gravitational pull partly canceling the Moon's during neap tides

Moon or the Sur	n? Explain in 2-3 s	sentences.	G	

**Reflection**: Which do you think is more important for creating tides on Earth: the

