

Name \_\_\_\_\_



## Matching Moon Phases to Tide Types

The Moon's phases affect the strength of tides on Earth. During a **new moon** or a **full moon**, the Sun, Earth, and Moon are in line, causing **spring tides** with the strongest high tides and the lowest low tides. During the **first quarter** or **third quarter moon**, the Sun and Moon form a right angle with Earth, creating **neap tides** with the least difference between high and low tides.

Match each **Moon phase** in Column A with the correct **tide type** in Column B. Write the letter of the tide type next to the Moon phase.

### Column A - Moon Phases

1. New Moon
2. Full Moon
3. First Quarter Moon
4. Third Quarter Moon

### Column B - Tide Types

- A. Neap Tide (least difference between high and low tides)
- B. Spring Tide (greatest difference between high and low tides)

**Extension Question:** Why do you think the Sun's position in relation to the Moon and Earth makes spring and neap tides stronger or weaker? Write 2-3 sentences.

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