Worksheet: Understanding Seed Germination

Part 1: Conditions for Germination

1. **Fill in the blanks**:
    - Seeds need _____ and an appropriate _____ to germinate.
    - Seeds do NOT need _____ to germinate.
2. **True or False**:
    - Seeds are protected by a seed coat.
    - Seeds need light to germinate.
    - Seeds swell after absorbing water.
    - Seeds can germinate at any temperature.

Part 2: The Germination Process

3. **Put these steps in order** (number them 1–7):



    - The shoot grows up.
    - The seed absorbs water and swells.
    - The first roots grow down.
    - The first leaves appear.
    - The embryo uses nutrients from its food store to grow.
    - The seed coat splits.
    - The seed shrivels and dies.

Part 3: Comprehension Check

4. **Short Answer Questions**:
    - Why don't seeds need light to germinate?
    - What happens to the seed after the first leaves appear?
    - Why is water important for germination?

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