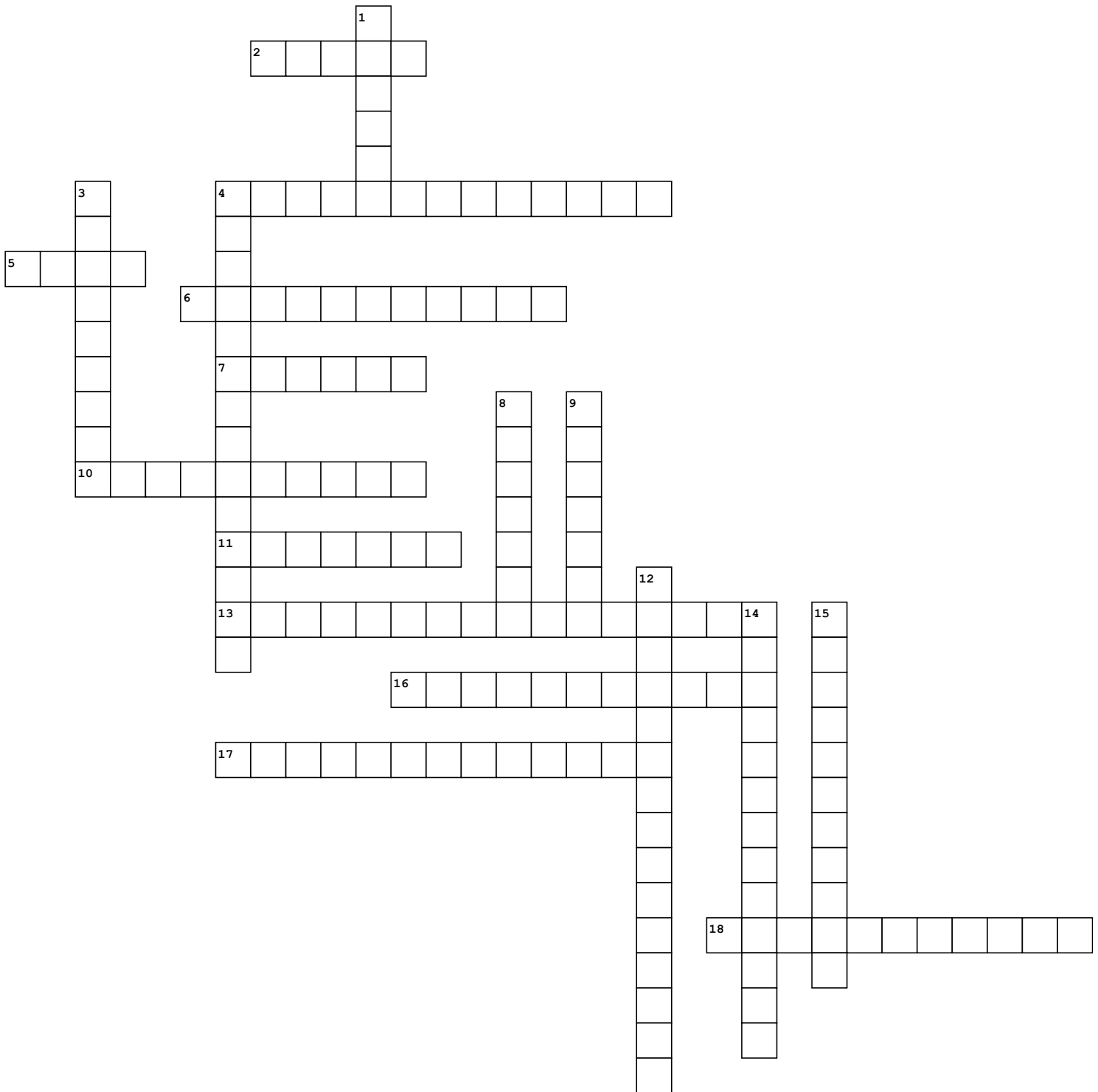


# Seedless Vascular Plants Vocabulary



## Across

- 2. Plant tissue that conducts water and minerals, fortified by lignin.
- 4. A pine cone would be an example

## Down

- 1. Photosynthetic, principal lateral appendages of the stem.
- 3. A reproductive structure consisting of non-photosynthetic sporophylls.

5. Thickened fleshy underground stem where energy is stored.
6. Large leaves that contain multiple strands of vascular tissue.
7. Plant tissue that conducts nutrients, mainly sucrose.
10. A modified leaf that bears sporangia.
11. Spiraling pattern of lignin in tracheary elements to allow for elongation.
13. Sporangia arise from only one epidermal cell and have a specialized explosive spore dispersal.
16. Production of one type of spore from one kind of sporangium.
17. Production of two types of spores from two different kinds of sporangia.
18. Small leaves that contain a single strand of vascular tissue.
4. A modified leaf that bears megasporangia.
8. Ring pattern of lignin in tracheary elements to allow for elongation.
9. Small lateral outgrowth of stem, produced by primitive vascular plants, thought to be first stage in microphyll evolution.
12. A modified leaf that bears microsporangia.
14. Sporangia arise from several epidermal cells and have no specialized dispersal of spores.
15. Ladder-like pattern of lignin in tracheary elements to allow for outward expansion.