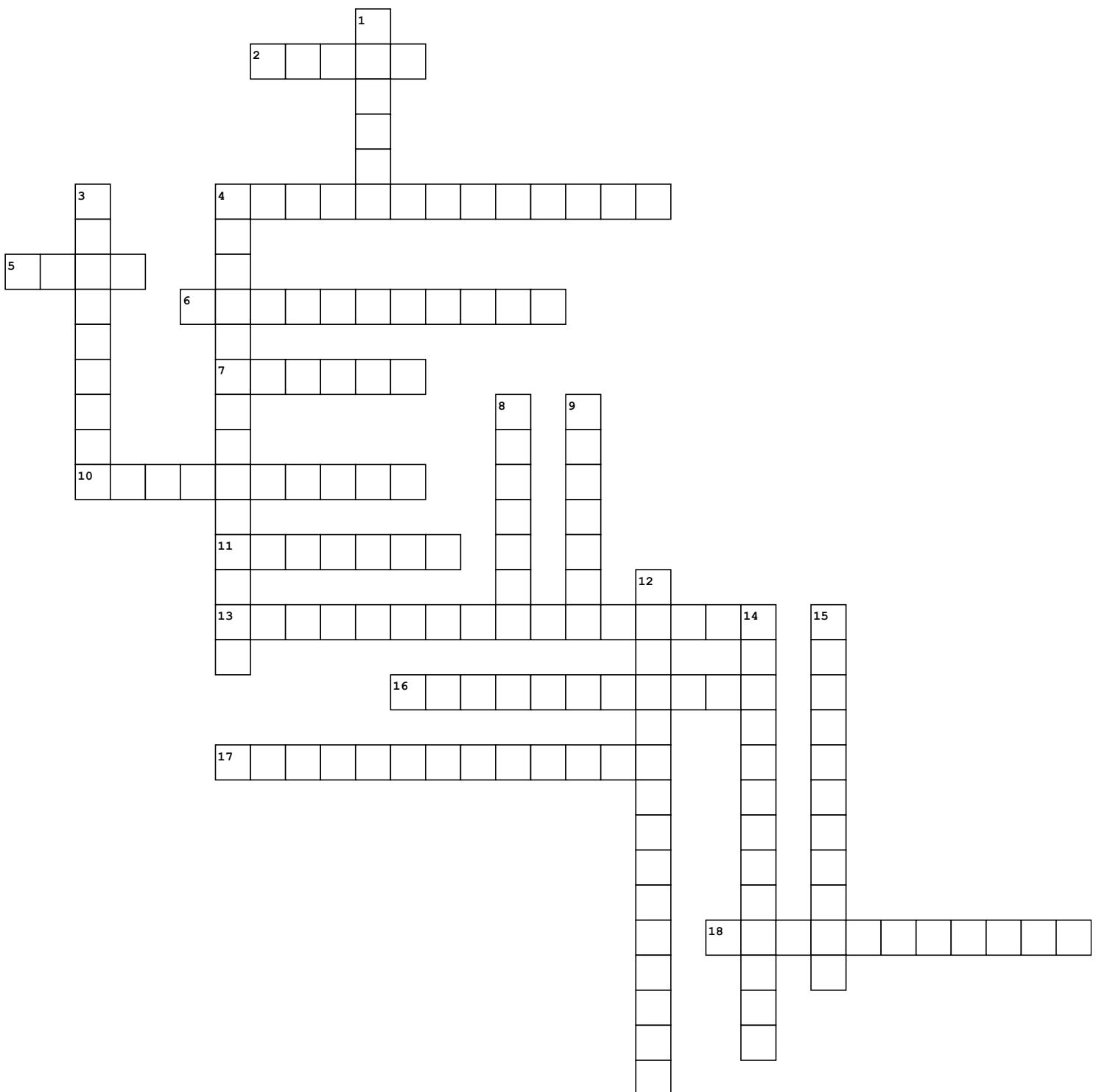


Seedless Vascular Plants Vocabulary



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. Litter-like pattern of lignin in tracheary elements to allow for outward expansion.