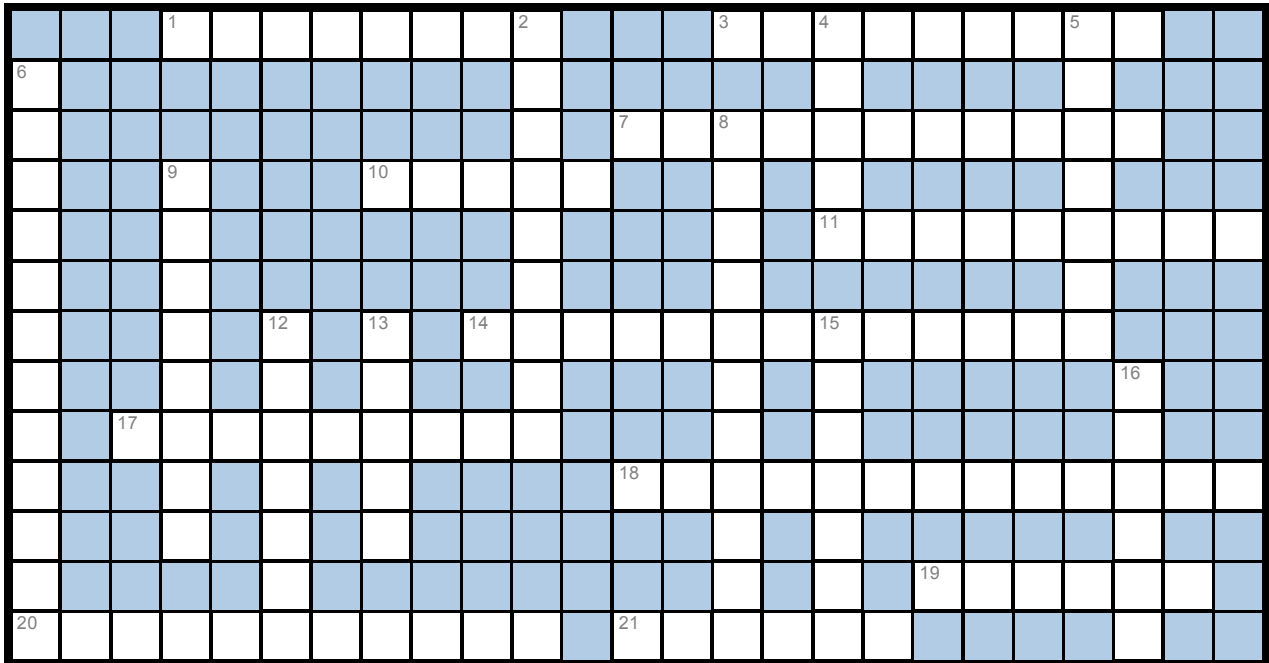


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**Chapter 23: Fibers, Fabrics, and Sewing Tools**

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**Across**

1. Sewing tool used to help push the needle through thick or tightly woven fabrics when hand sewing.
3. The substance forming the main part of all plants' cell walls.
7. Extremely fine filaments that make extra smooth, soft, and silky fabrics.
10. Continuous strands of fibers.
11. A small nozzle with many tiny holes used in the production of fibers.
14. Fibers created from animal sources.
17. Continuous strands of fibers.
18. Fibers created from plant or animal sources.
19. Hairlike strands that can be twisted together to form yarns.
20. A six-inch ruler with a sliding marker.
21. A treatment that is given to fibers, yarns, or fabrics that can improve the look, feel, or performance of a fabric.

**Down**

2. Yarns made by using short, natural fibers or manufactured fibers cut to staple lengths.
4. Machines used for weaving fabrics.
5. High-speed sewing machines that stitch, trim, and finish seams in one step.
6. Short lengths of fibers.
8. Two or more yarns that vary in fiber composition, content, and/or twist level.
9. Looping yarns together.
12. The process of interlacing yarns at right angles to each other to produce a fabric.
13. Yarn made of two or more very different fibers.
15. Different materials made by weaving or knitting yarns or pressing fibers together.
16. Sewing tool that has extra-long blades and larger, bent handles for comfort and holding a fabric flat for more accurate cutting.