2015 Robotics Fiber Science 4-H Challenge Score Sheet
(Cornell Cooperative Extension offers equal program and employment opportunities)

Team Name__________________________________________

1. Hang Up-Place a 3-D printed coat hanger on the clothing rack.
   Score **20 Points**

2. Project Runaway Runway-Your robot must be dressed for success and walk the runway. Must follow from base to base.
   Score **10 points** for costume/outfit- **30 points** for completing the runway.

3. Up, Up and Away-You will have to release the tethered hot air balloon from its anchor station.
   Score **20 points** for releasing the balloon

4. Knot Me-Your robot will spin the lever and make its own rope.
   Score **25 points** for making rope

5. Say it's not Sew-Your robot will have to push the pedal 3 times on an old fashion treadle sewing machine.
   Score **20 points** for sewing

6. The Natural-Can your robot pick out the natural fibers from the manmade fibers and bring them to base?
   Score **10 points** for every correct natural fiber returned to base
   **Possible 30 points**
   **Penalty of 5 points for every manmade fiber returned to base**

7. Pattern- From base you will deliver the missing quilt piece into the final spot.
   Score **15 points** for quilt square totally in the correct position

8. Sheepish –The robot will leave base and place a (felted) sheep into a shearing pen on the farm. **10 points** for sheep delivery

9. Crochet Ricochet- Your robot will run the zip line to place the Crochet needle through the loop, all while hanging.
   Huge risk so **40 points** for crossing the zip line.

10. To Dye For-Your robot will make a delivery placing the correct dyes in the correct colored container.
    Score **10 points** for every color in correct container
    **Possible 40 points**
    **Deduction will be 5 points off for every touch of the robot outside of base**

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