



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

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| Name(s) Christine Dempster; Elizabeth Leire | Project Number 22884 |
| Project Title Pressure's On! | |
| Abstract Objectives/Goals "Pressure's On!" was designed to support whether a dressage saddle or a multipurpose saddle would create the least amount of pressure points on a horse's back. Methods/Materials In order to test our hypothesis, we placed bubble wrap between the saddle and the saddle pad. We did five tests for each saddle, riding for approximately twenty-five minutes on each trial. We then removed the bubble wrap and went over any popped bubbles with fabric paint in order to increase visibility. Lastly we photographed and logged our results. Our materials included one horse, one rider, one dressage saddle and one multipurpose that fit the horse and the rider, a camera, fabric paint, and small-bubbled bubble wrap. Results Our project supported our hypothesis. The dressage saddle created much less pressure points on the horse's back than the multipurpose saddle did. Conclusions/Discussion Since the dressage saddle distributed the rider's weight evenly, it created less pressure points in the horse's back than the multipurpose saddle. The dressage saddle allows the horse to preform his or her tasks more easily, comfortably, and efficiently. | |
| Summary Statement Pressure's On! proved that the dressage saddle creates less pressure points on the horse's back than the multipurpose saddle. | |
| Help Received Mr. and Mrs. Leire helped with transportaion and provided indoor arena when raining. Mr. and Mrs. Dempster for providing ideas and helping with the display board. Stamps and model horses were provided by Bridget Leire and Kelsey Laity D'Agastino. Michelle Restivo for some illustrations in our | |