Oral Exam Rubric

Problem Solving:

- ☐ Drew pictures first
- ☐ Made a plan
- ☐ Checked in with: "What am I doing?", "Why am I doing it?", and "How does it fit in with my plan?"
- ☐ Checked answer. "Is it resasonable?" (e.g. units or order of magnitude)
- ☐ Checked limiting values of answer.

Energy

- ☐ When does conservation of energy apply?
- ☐ When does conservation of mechanical energy apply?
- ☐ What are kinetic and potential energy?
- ☐ What is work and how does it relate to energy?
- ☐ Demonstrated energy conservation in a problem

Forces

- ☐ Drew a free body diagram and checked it for completeness
- ☐ Setup coordinates
- ☐ Decomposed vector forces into components
- ☐ Used Newton's second law
- ☐ Reasoned clearly about accelerations and velocities

Momentum

- ☐ When is momentum conserved?
- ☐ What is momentum?
- ☐ What are elastic and inelastic collisions?
- ☐ Demonstrated conservation of momentum in a problem
- ☐ Knew the relationship between momentum and force

Clarity and reasoning: ☐ Demonstrated the ability to argue why the claims made were true

Further comments (may be continued on back):