

# Applied Physics Coversheets

## Chapters 1-2 Packet—Scientific Method and Equilibrium

1. Study Guide: “Getting to Know Your Textbook”
2. Lab: “Amassing a Penny’s Worth”
3. Graph/Histogram of Penny’s Mass
4. Lab: “Smart Ropes”
5. “X-graph” of Smart Ropes
6. Worksheet 2-1
7. Worksheet 2-2
8. Lab/Demo: “24-Hour Towing Service”
9. Chapter 2 Reading Notes

## Chapter 3: Newton’s Law of Inertia

1. Lab: “Going Nuts”
2. Worksheet 3-1
3. Worksheet 3-2
4. Chapter 3 Class Notes
5. Chapter 3 Reading Notes

## Chapter 4: Linear Motion

1. Worksheet 4-1
2. Worksheet 4-2 (hang-time calculation on back)
3. Lab: “The Domino Effect”
4. Lab” “Reaction Time”
5. Worksheet 4-3 (“Free Fall”)
6. Chapter 4 Class Notes

## Chapter 5: Projectile Motion

1. Worksheet 5-1
2. Anatomy of a Pitch (plus graph)
3. Anatomy of a Homer (plus graph)
4. Video Notes: “History and Physics of Balls”
5. Video Notes: “Einstein, 2008”
6. Lab: “Bull’s Eye”
7. Monkey and the Hunter
8. Calculating the Cost of Field Trips
9. Chapter 5 Reading Notes
10. Chapter 5 Review Questions

## Chapters 7-13 Mechanics

1. Worksheet 7-2
2. Class Notes for Chapter 7—Newton's 3<sup>rd</sup> Law
3. Lab #23 "Egg Toss"
4. "Golden Eye Bungee Jump"
5. Class Notes for Chapter 8—Impulse and Momentum
6. "Head-on Physics"
7. "Football Physics"
8. "Roller Coaster Physics"—Bowling Ball Pendulum & Model Roller Coasters
9. Reading Notes for Chapter 10—Circular Motion
10. Lab #34 "Going in Circles"
11. Frames of Reference Study Guide
12. Chapter 13 Reading Notes—"Universal Law of Gravitation"
13. Apollo 13 Video Notes

**Coversheet: Chapters 14, 21, 23, 25, 26**

1. Chapter 14 Reading Notes
2. Chapter 21 Reading Notes
3. Chapter 23 Reading Notes
4. Chapter 25 Reading Notes
5. Chapter 26 Reading Notes
6. Lab: "Getting Eccentric"
7. Lab: "Weighing an Elephant"
8. Lab: "Solitary See-Saw"
9. Lab: "Heat Mixes-I"
10. Lab: "Temperature of a Flame"
11. Lab: "LN is Cool Stuff"
12. Worksheet 11-3