

Name _____ Date _____

Catapult Design

1. On the back of this page, draw a detailed blueprint of your catapult. Label ALL important parts.
2. What was the most difficult part of designing your catapult?
3. List several problems that you encountered when building your catapult. Explain how you solved each problem.
4. Explain how your catapult uses potential energy.
5. Explain how your catapult changes potential energy to kinetic energy.
6. Explain how your catapult loses some energy to thermal energy.
7. Draw AND label a picture of balanced forces in your catapult.
8. Explain how your catapult uses inertia to launch a ping pong ball.
9. Explain how the catapult's release angle affects the flight of the ping pong ball.
10. Why might your catapult not be able to launch a ping pong ball the same distance each time?
11. If you had more time and supplies, what modifications would you make to your catapult to make it more accurate? Why?