

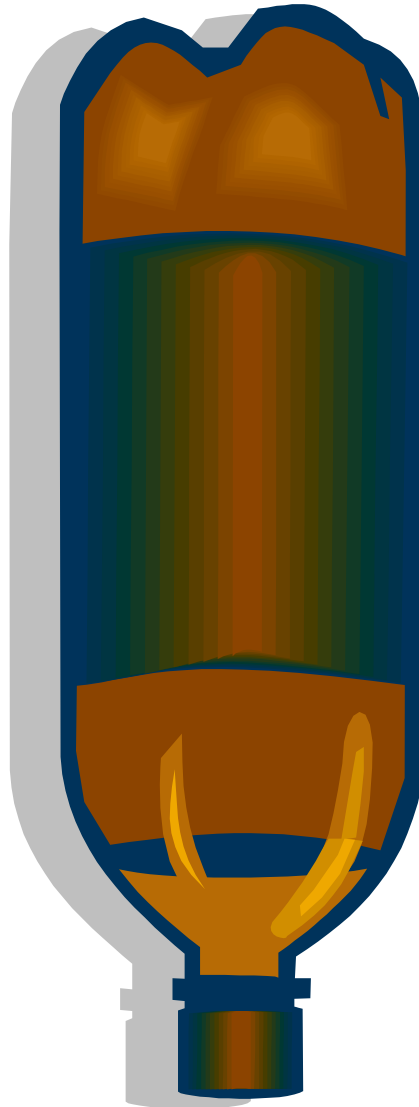
Introduction to Water Rockets

Answer the following questions about the science of rocketry. Use the knowledge learned to help design your rocket.

1. Describe what a water rocket is using words and pictures.
2. What is Newton's First Law? How does it apply to rocketry?
3. What is Newton's Second Law? How does it apply to rocketry?
4. What is Newton's Third Law? How does it apply to rocketry?
5. Why does a rocket with water fly higher than a rocket with no water?
6. What is air drag?
7. List three things you can do to your rocket to decrease air drag.
8. What is the purpose of fins on a rocket?
9. List two purposes of a nose cone on a rocket?

10. What is the purpose of using a ballast in your rocket?

In the space provided below, sketch out your rocket design. Make sure to draw a nose cone and fins to the shape you desire.



Will you be using a parachute or other device to slow down the decent? Explain how it will work: