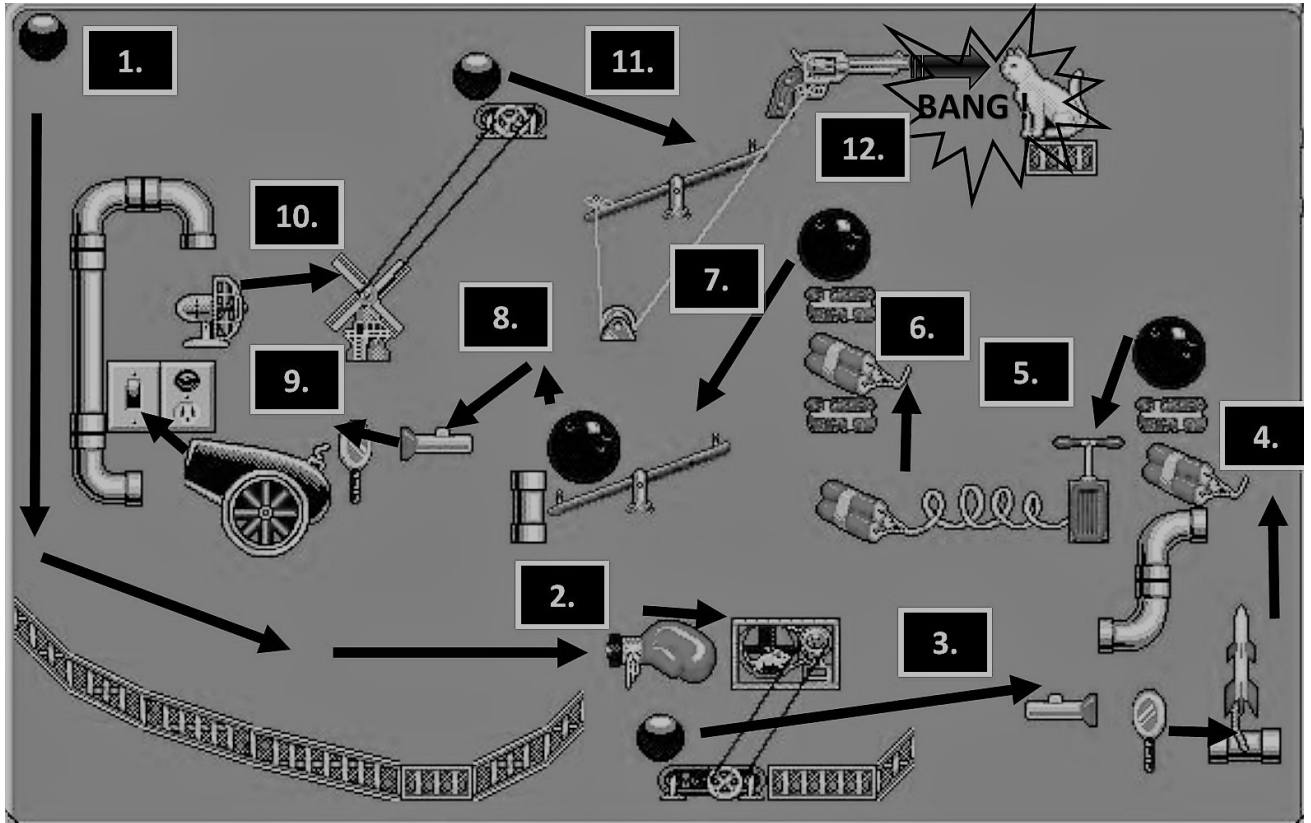


## Understanding simple processes

In the diagram below, you can see an incredible new invention which has been proposed for people to get rid of cats from their garden!

Can you describe how the *Cat Blaster™* works? Use the words below to help you explain the 12 stages of the process.



(Adapted from <http://sfprod.shikadi.net/games/incrediblemachine.htm>)

1. Ball / Ramp / Boxing glove
2. Mouse's exercise wheel / Conveyer belt / Torch button
3. Torch light / Magnifying glass / Fuse
4. Rocket / Dynamite / Bowling ball
5. – 8. Plunger / See-saw
9. Cannon / Light switch / Fan
10. – 12. Windmill / String / Trigger / Gun

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Answer Key:

I. Possible answer:

*The ball falls onto the ramp and then rolls along it in order to activate the boxing glove. The glove hits the mouse's exercise wheel, causing the mouse to wake up and start running. This turns the conveyer belt which then allows the second ball hit the torch's switch and turn it on. The torch's light is focussed by the magnifying glass and the heat ignites the rocket fuse. The rocket's launch ignites the dynamite and the explosion causes the bowling ball to fall onto the plunger. The plunger causes the second explosion, and then a third, which allows the second bowling ball to activate the see-saw. The see-saw throws the third bowling ball onto the second torch's button, and switches it on. Again, the magnifying glass allows the torch to fire the cannon, and the cannon ball activates the switch for the fan. The fan blows onto the windmill whose action activates the conveyer belt, and throws the third ball onto the second see-saw. The movement of the see-saw tightens the string, which pulls the trigger of the gun and fires at the cat!*