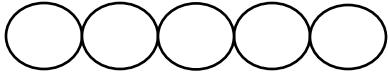


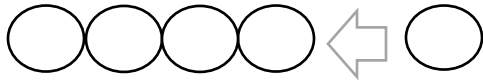
Newton's cradle worksheet

Newton's cradle is a physical representation of Newton's third law. The picture below is representation of what Newton's cradle looks like.

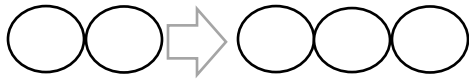


1. What is Newton's third law of motion?

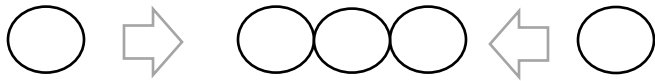
2. So if I move one sphere on the right out and allow it to swing back into the other spheres, what should happen?



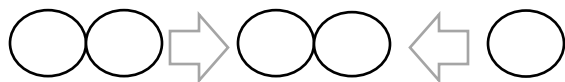
3. If I move two spheres on the left out and allow them to swing back into the other spheres, what should happen?



4. If I move one sphere on the left out and one sphere on the right out and let them swing back and hit the other spheres, what would happen?



5. If I move two spheres on the left out and move one sphere on the right out and let them swing back and hit the other spheres, what will happen?



6. Now let us add more spheres to the cradle so that there are ten spheres.



7. If I move three spheres on the left out and move one sphere on the right out and let them swing back and hit the other spheres, what will happen?



8. If I move five spheres on the left out and let them swing back and hit the other spheres, what will happen?



9. If I move seven spheres on the right out and let them swing back and hit the other spheres, what will happen?

