## **Magic Entanglement**

The magician explains that there is an interesting phenomenon in physics called entanglement through which when a pair of photons or electrons, become entangled, they remain connected even when separated by vast distances. He offers to show a quick demonstration of how two separate objects can magically stay connected. He shows a die and has it examined. The spectator can throw it a few times to see that it is an ordinary die and each time it is thrown a different number turns out. He then introduces a spinning top that has on it numbers from 1 to 6. This also can be examined, and it is also spinned a few times to show that it always ends up on different numbers. Now the magician waves his hands over the objects, magically "entagleing" them! So now the spectator rolls the die and for example the number 3 comes out. The spinning top is spinned, and... the number 3 comes out too! The experiment can be repeated and the die and spinning top will continue to be magically entangled whatever number is rolled!

• In addition to the instructions, in the package you will find both the spinning top and the die!