

Nome: _____ Turma: _____ Data _____

Esquema da ligação elétrica do VelhaBall

Atividade proposta

Desenhar, no espaço abaixo, o esquema elétrico que permita ao Arduino Mega controlar o acendimento das fitas Leds de cada painel. O esquema deverá atender às seguintes necessidades:

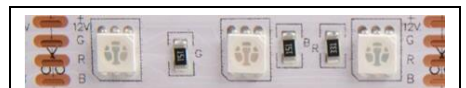
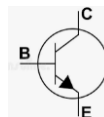
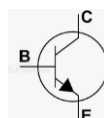
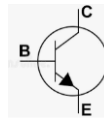
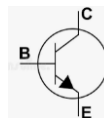
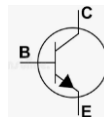
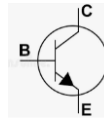
- 1) O Arduino será alimentado por uma fonte de 9 V;
- 2) A fita Led será alimentada por uma fonte de 12 V;
- 3) A fita Led tem o terminal positivo (+) comum;
- 4) O transistor a ser utilizado é o 2N2222 (NPN);
- 5) A corrente necessária para cada fita Led é de 120 mA;
- 6) Calcule o valor do resistor de base do transistor.



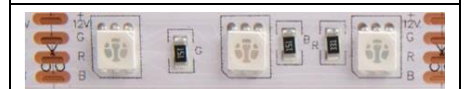
Fonte 12 V



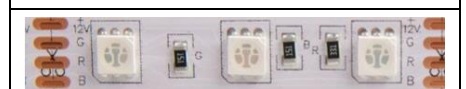
Fonte 9 V



Painel 1



Painel 2



Painel 3

