

Week 5

Q63- Can our vehicle jump over the light beam and have the lap count anyway?

No. See Q47.

Q64- Are we allowed to use an electrical circuit and battery to turn on and off a gearing system that does not propel the vehicle?

No. See Rule 2.1.

Q65- Are we allowed to use pre-compressed springs on the condition that these springs do not contribute to the vehicle's forward movement?

No. Being compressed, the springs would hold potential energy. See Rule 2.1.

Q66- Am I allowed to invent a system that creates energy as it moves but that uses wind energy to start?

Yes, but only wind energy must be responsible for transforming your energy. So your device cannot hold any potential energy at the start and only wind energy may be transformed to make your vehicle move forwards.

Q67- Are we allowed to deploy the transformer base outside the departure zone, without coming into contact with the floor, once the fans have been turned on?

Yes.

Q68-What kind of adhesive tape will be used to mark the track?(Type, thickness and roughness vary, which can affect the device's performance.)

It will be 3/4-inch wide adhesive tape like the kind used for electrical applications.

Q69- Does the departure zone include the pie-shaped area with a radius of 750 mm lying inside the circle formed by the hockey pucks? If so, are we allowed to leave the transformer base there?

Yes. See Q10 and Q14.

Q70- Can the starting line or one of the lines marking one eighth of a lap be considered to have been crossed if the vehicle crosses that line inside the circle formed by the eight hockey pucks and if the vehicle does not come into contact with the floor there?

No. Only the lines marking one eighth of a lap outside the circle formed by the hockey pucks will be counted. The vehicle must move around this circular track.

Q71- Are we allowed to remove the fan support pads so we can juxtapose the fans?

No. The official material cannot be modified in any way. See Q8.

Q72- Are we allowed to support our device on the four hockey pucks in the middle of the playing field?

No.

Q-73 If a part of the vehicle falls off as it makes its way around the track, what impact does this have on the 1/8th lap scoring?

N will correspond to the number of laps completed by the vehicle when the first part of it comes to a stop.

Q74- Are we allowed to use a mass that travels vertically to move the vehicle forward? If so, how can we say that there is no potential energy?

Yes, as long as the mass does not fall below its initial position when the fans were turned on.