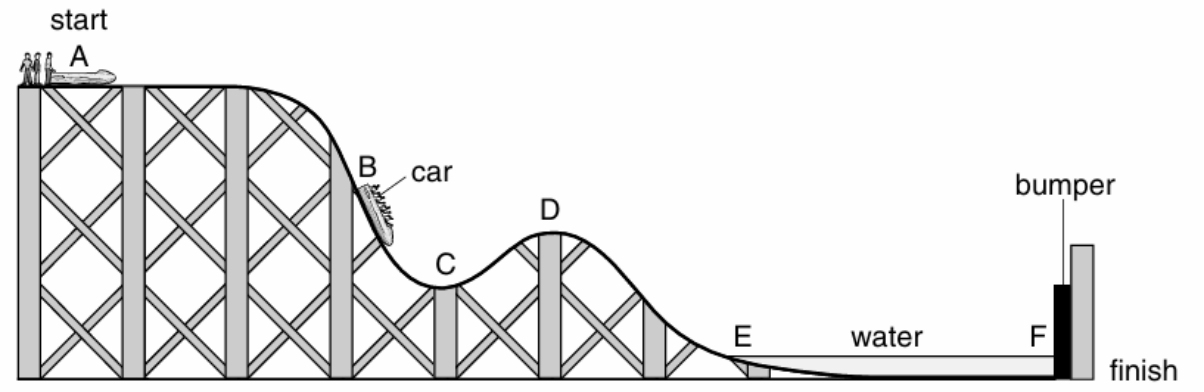
7. The photograph shows some pupils in a log car on a theme-park ride.

The drawing below shows the ride.
The letters A, B, C, D, E and F show different points along the track.



The car starts from A and travels to F, where it stops by hitting a bumper.
At E the car enters a trench filled with water.

(a) (i) At which **two** points does the car have **no** kinetic energy?
Give the **two** correct letters.

_____ and _____

(ii) At which point does the car have the **most** gravitational potential energy?
Give the correct letter.

_____

(iii) At which point does the car have **some** kinetic energy and the **least** gravitational potential energy?
Give the correct letter.

_____

(b) (i) The cars are **not** powered by a motor.
What force causes the cars to move along the track from B to C?

_____

(ii) When a car splashes through the water at E, it slows down.
What force acts on the car to slow it down?

_____

(c) Complete the sentence below by choosing from the following words.

chemical	**gravitational potential**	**kinetic**
light	**sound**	**thermal**

When the car hits the bumper at F, its _____ energy

is transferred into _____ energy and

_____ energy.