



The risk of flood hazards: the hydraulic aspects of rivers WORKSHEET 1

What does the speed of the flowing water depend on?

Choose the correct words:

- 1) If the slope decreases, the speed *increases / decreases*
- 2) If the river bed shrinks up, the speed *increases / decreases*
- 3) If the river bed is impermeable the speed *increases / decreases*
- 4) If the roughness of a riverbed decreases, the speed *increases / decreases*
- 5) If the hidden and cemented watercourse is open (daylighting) the speed *increases / decreases*

Write below the formula for the kinetic energy

In your opinion, if the flow velocity increases, does the kinetic energy increase or decrease? Can you say in what proportion?

Write a consideration on the variation of speed and energy of the water in the stretches of the waterways that have been cemented like the hidden river.

What happens in a river when speed and energy increase?

How can you observe this phenomena in the river?
