TERMINOLOGY

OUTCOME : This is the set of all possible outcomes (D)
OUTCOME: On element of the outcome space (W)
EVENT: A subset of the outcome space.

Note that outcome space and events are sets, while the outcome is an element of the set.

one way to think about this is urhenner you're dealing with an unaxtain experiment, the outroms space is the set of all outromes that are possible. The event then can be thought of as applying a filter on the outrome space. The event contains the outromes that she can be always.

EXAMPLE: Assume assurve thisping a fair. 6. sided die.
Your outcome space would be \{1,2,3,4,5,6\}
Now \{1 you supply the follow outcomes only
then your event is \{2,4,6\}.

Sinvilarly, of my filter was " outromes > 7" then my event would be ϕ . - empty set

nurefore, the event can be a null set at the entire outroms space