

George Eliot and The Influence of Science



[1]

Black and White Portrait of George Eliot [Public Domain], via Wikimedia Commons

Throughout all of Eliot's major texts, it becomes apparent that she employs the detailed analysis used in scientific investigation to observe moral, social, and medical phenomena. Eliot uses science as a form of realism; in imitating scientific methods and theories within her texts she is able to accurately portray the true nature of the world and the people within in it.

Scientific Processes

On 25 January 1876, George Eliot wrote a letter to Dr Joseph Frank in which she claimed her writing was 'simply a set of experiments in life'. Eliot's depiction of her work as an 'experiment' illustrates her awareness of scientific vocabulary, and suggests that a process of observation, analysis, and scientific precision forms the foundation of her texts. This formula for writing, endorsed by Eliot, serves to unite the scientific procedures of the Victorian era with her works of realism.

One such example of the unification between procedure and narrative occurs in *Middlemarch* [2] - the novel

Eliot's partner George Henry Lewes, wrote his scientific text *Physiology of Common Life* [4] whilst she was working on what was to become her best-selling novel, *Adam Bede* [5] (1859). The definition of science that Lewes offers there resonates within the text of Eliot's first full-length novel, evident in her frequent use of metaphors drawn from natural science. As the narrator notes in *Adam Bede*:

'But we get accustomed to mental as well as bodily pain, without for all that, losing our sensibilities to it: it becomes a habit or our lives, and we cease to imagine a condition of perfect ease possible for us. Desire is chastened into submission? it is at such periods that the sense of our lives having visible and invisible relations beyond any of which either our present or prospective self is the centre, grows like a muscle that we are obliged to lean on and exert.'

Eliot uses the physiological description of a muscle to make physical the immaterial mental process, and remind us of the physiological dimension of thought processes; this being the brain as the organ of the mind. Biology, the self, and society are all linked through this scientific metaphor.

Another example of Eliot's use of powerful, scientific metaphor occurs in *Middlemarch* [2], when Dorothea's gaze is caught by the red fabric hung in St Peter's basilica. Eliot renders the image as quite literally eye catching, the image holding Dorothea's eye to then 'spread itself everywhere like a disease of the retina'.

Consciousness and Perception

Eliot makes use of the vocabulary of consciousness before it was made popular in the early twentieth century. Her novella *The Lifted Veil* [6] (1859) uses the language of nineteenth-century science to engage with the concept of perception and consciousness. Through Latimer's extrasensory powers, which Eliot called 'double consciousness' ? he is able to see his own death and hear the thoughts of those around him - the danger of only perceiving the foibles of others rather than their good qualities, and the problems that arise through too great an awareness of other people are investigated.

Latimer describes the oppressiveness of being able to hear the thoughts of not only strangers, but friends and family too:

'[?]when the rational talk, the graceful attentions, the wittily-turned phrases, and the kindly deeds, which used to make the web of their characters, were seen as if thrust asunder by a microscopic vision, that showed all the intermediate frivolities, all the suppressed egoism, all the struggling chaos of puerilities, meanness, vague capricious memories, and indolent make-shift thoughts, from which human words and deeds emerge like leaflets covering a fermenting heap.'

Eliot's manipulation of consciousness in *The Lifted Veil* means that her characters are not reducible to materialism. Sympathy for others is the quintessence of moral behaviour, and Latimer's knowledge is thereby only partial because, due to his ability to see all, he is disgusted by others and without sympathy. Ignorance has its merits. As this famous narrative interruption from *Middlemarch* states:

'If we had a keen vision and feeling of all ordinary human life it would be like hearing the grass grow and the squirrel's heart beat and we should die of that roar that lies on the other side of silence. As it is, the quickest of us walk about well-wadded in stupidity'.

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