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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Atavistic** | **Genetics** | **Neural** | **Eysenck – criminal personality** | **Cognitive – moral reasoning** | **Cognitive distortions** | **DAT** | **Psychodynamic** |
| **AO1**  6 key words/  phrases to include in outline |  | > Inherited gene/s – predisposed to criminal behaviour  > Twins:  Christiansen – 33% MZ, 12% DZ.  Raine – 52% MZ, 21% DZ.  > Candidate genes - MAOA & CDH13: Tihonen – 13 x more likely with this combo.  > Brunner – low levels of MAOA |  |  |  |  |  |  |
| **AO3**  Paragraph 1 |  | Mednick (adoption study) | Issues with investigating brain |  |  |  |  |  |
| Paragraph 2 |  | Problems with twin studies | Issues with causation |  |  |  |  |  |
| Paragraph 3 |  | Bio reductionism | Bio reductionism |  |  |  |  |  |