

## Unit 2 Topic 2.1 Page 97

### Activity: Media

#### Twin and adoption studies

##### Learning objective

At the end of this activity you should be able to:

- understand the relevance of twin and adoption studies in understanding genetic and environmental causes of behaviour.
- A. Using the link below, answer the questions that follow. The clip uses schizophrenia as an example to discuss nature and nurture, but the points made about studying schizophrenia also apply to studying criminal behaviour.

<https://www.youtube.com/watch?v=TWW0u2RVFcM>

1. According to the clip, why are twin studies and adoption studies important to researchers?
  2. What are monozygotic twins?
  3. What are dizygotic twins?
  4. What do both monozygotic and dizygotic twins share?
  5. How are dizygotic twins different to regular siblings? Give an example to illustrate this.
  6. According to the clip, what might a scientist want to find out about schizophrenia?
  7. How do twin studies help scientists help to isolate causes from nature or nurture? Use schizophrenia as an example to explain.
  8. What problems are there with twin studies?
  9. How do adoption studies help us understand the difference between nature and nurture as causes?
  10. Why might adoption studies be a problem for understanding nature and nurture?
  11. How can twin and adoption studies be combined?
  12. Why might these studies be problematic?
  13. Summarise how twin and adoption studies could highlight whether something has a genetic cause.
  14. Summarise how twin and adoption studies could highlight whether something has an environmental cause.
- B. As a whole class, using your answers from 1-14, discuss how twin and adoption studies can be used in understanding the genetic causes of criminal behaviour. Write a brief summary of your discussion.