## **Designing research studies**

When you design a psychological research study you must start with the research question, which dictates what you want to find out. You must come up with a way of answering the question in a scientifically valid way. You need to make the following decisions.

Area	Key question	Choices/decisions
Research	What is the basic structure of	Experimental or quasi-experimental (if so, independent
design	your study?	groups, repeated measures or matched PPs?)
		Correlational
		Longitudinal
Research	How will you obtain data?	Performance on an experimental task
method		Observation (if so, overt or covert etc.)
		Content analysis
		Self report (interview, questionnaire?)
Variables	What are you trying to measure	If experimental, what is the IV & how will the conditions
	and how will you measure it?	be different?
		What measurements will be needed & how will you get
		them?
Tasks &	What will you need to carry out	Experimental task
materials	the study?	Observation/content analysis categories
		Interview schedule
		Questionnaire design (e.g. question types)
		In all cases, how will PPs' behaviour be translated into
		data?
Controls	How will you ensure your study	Identify EVs and confounds
	has internal validity?	Explain how you will prevent them affecting the study's
		outcome
Sample	Who will you use in your	Sample size and composition
	study?	Target population
		Sampling technique and procedure (opportunity,
		systematic, stratified, random)
Ethics	How will you ensure that PPs	Informed consent; deception; risk of harm; privacy;
	are treated correctly?	confidentiality; PPs' rights

## Some possible research questions

- Does problem solving ability change with age?
- Does being a victim of crime change people's attitudes towards the criminal justice system?
- Does being good at Maths make you good at Science?
- Are there gender differences in people's emotional responses to violence?
- Does a person's mood influence how generous she or he is?

## **Exercises to improve your skills:**

- 1. Choose and justify a research design & method for each of these research questions.
- 2. Choose a different design/method for each, explaining why it would be a better choice.
- 3. Where you have chosen a questionnaire, explain how you would construct it.
- 4. Choose one study and write a briefing script for obtaining informed consent from the PPs.
- 5. Choose one study and write a debriefing to use with the PPs after the study is complete.