

# CLASS CLIPS

SCIENCE

Biology

Drug Trials

The Heart

TEACHERS NOTES

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## Science (Biology)

Clip 1 - Drug Trial - data Duration: 5:45



- What is meant by:  
Placebo, double blind, fair testing.

- **KEY FEATURES OF CLIP**

This video clip outlines the procedures taken when carrying out a clinical trial. It shows what volunteers and scientists go through in a typical day.

It features descriptions of:

- Procedure (designing the trial)
- Safety
- Double blind
- Fair testing
- Recording and analysing data

This clip can be used to illustrate How Science Works.

### ACTIVITY IDEAS

This clip shows how a clinical trial is carried out and how scientists plan, record and analyse data (How Science Works). The students could watch the clip and write down the meanings of the words: placebo, double blind and fair testing. After the clip, students could then design and carry out a clinical trial to test the hypothesis: "You cannot tell the difference in flavour between orange, mint and milk chocolate when you hold your nose". White chocolate could be used as the placebo.



- Everyone write down three questions to ask everyone after watching the clip

- **KEY FEATURES OF CLIP**

This clip focuses on the ethics of drug trials and whether the volunteers are aware of the risks. It also draws attention to the fact that scientists cannot do experiments without approval first. It shows an ethics committee, who are they and what they do. It outlines that if an activity is perceived as risky, the benefits must outweigh the risks of doing it. It also shows how the volunteers are screened and deals with the issue of payment.

### ACTIVITY IDEAS

Define ethical and unethical. The students ask each other the questions they have devised. A class discussion on the ethics of drug trials, ask the students to come up with five arguments for and five arguments against testing drugs on humans (clinical trials).

**Science (Biology)****Clip 3 - The Heart Duration: 2:25**

- What organs is the circulatory system made up of?
- What the job of the circulatory system?
- How can you reduce the risk of having a heart attack?

**KEY FEATURES OF CLIP**

The clip shows that the human heart has a double circulation, pumping deoxygenated blood to the lungs then pumping the oxygenated blood to the rest of the body. The clip shows how a heart attack happens and the things that can be done to reduce the risk of heart attacks.

**ACTIVITY IDEAS**

Discussion on risk factors and heart disease. Students draw a cartoon person showing all the risk factors: lifestyle and inherited factors. Explain to the students that heart disease is much more common in industrialised countries than in non-industrialised countries. Students discuss and write down some of the reasons why. Students pool their ideas on how to avoid heart disease. Students draw a cartoon person of someone who is reducing the risk of getting heart disease.