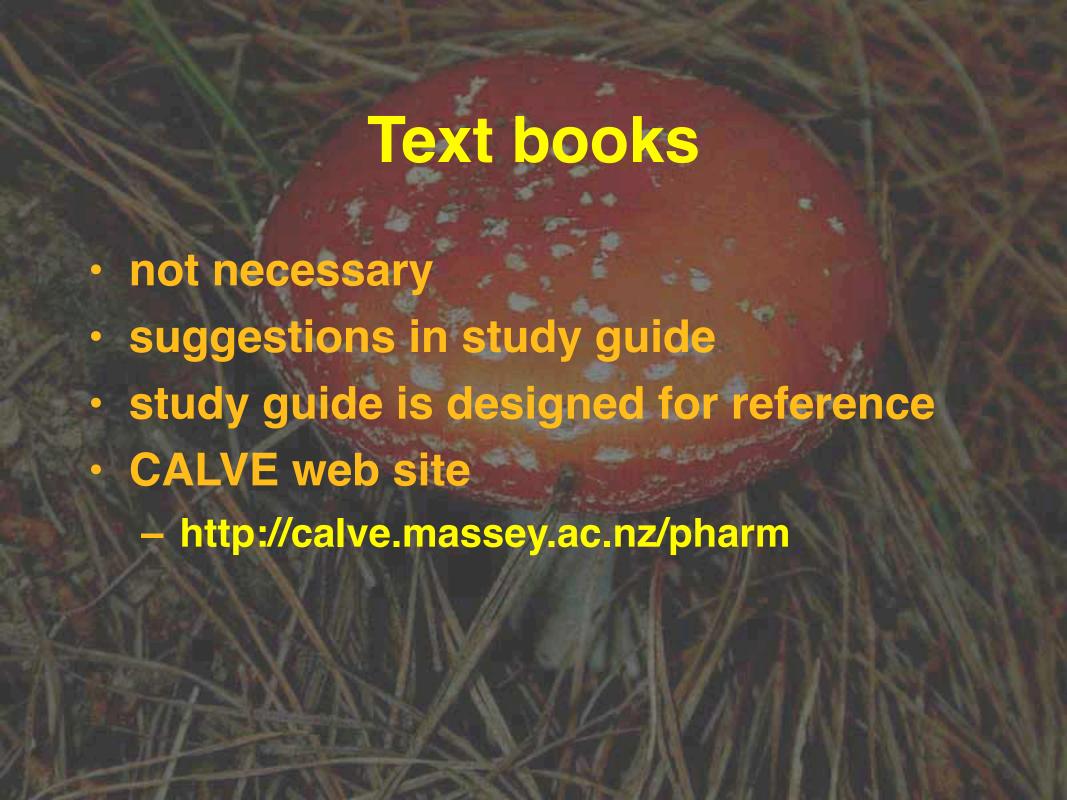


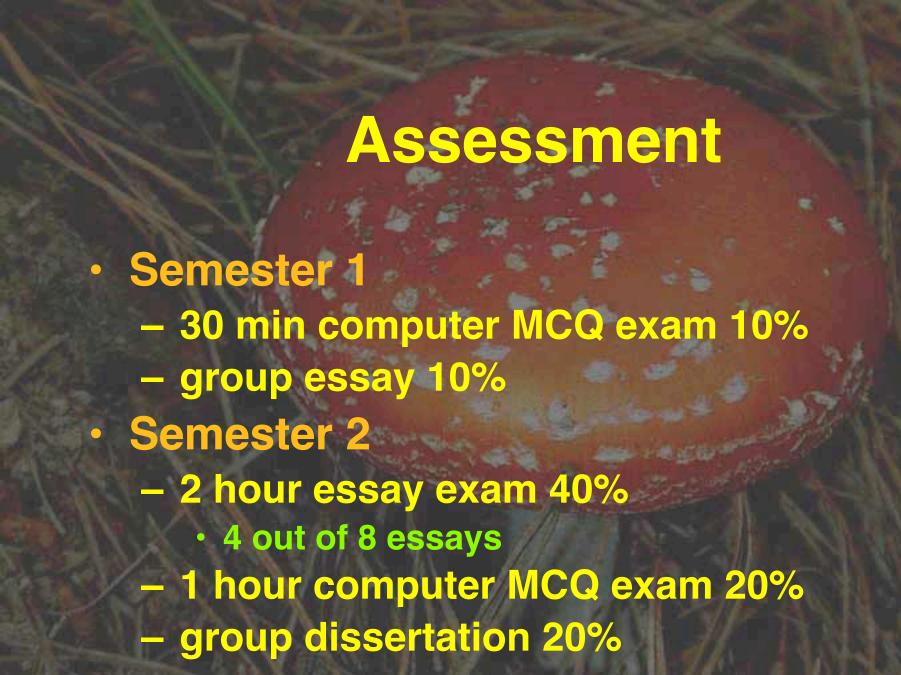


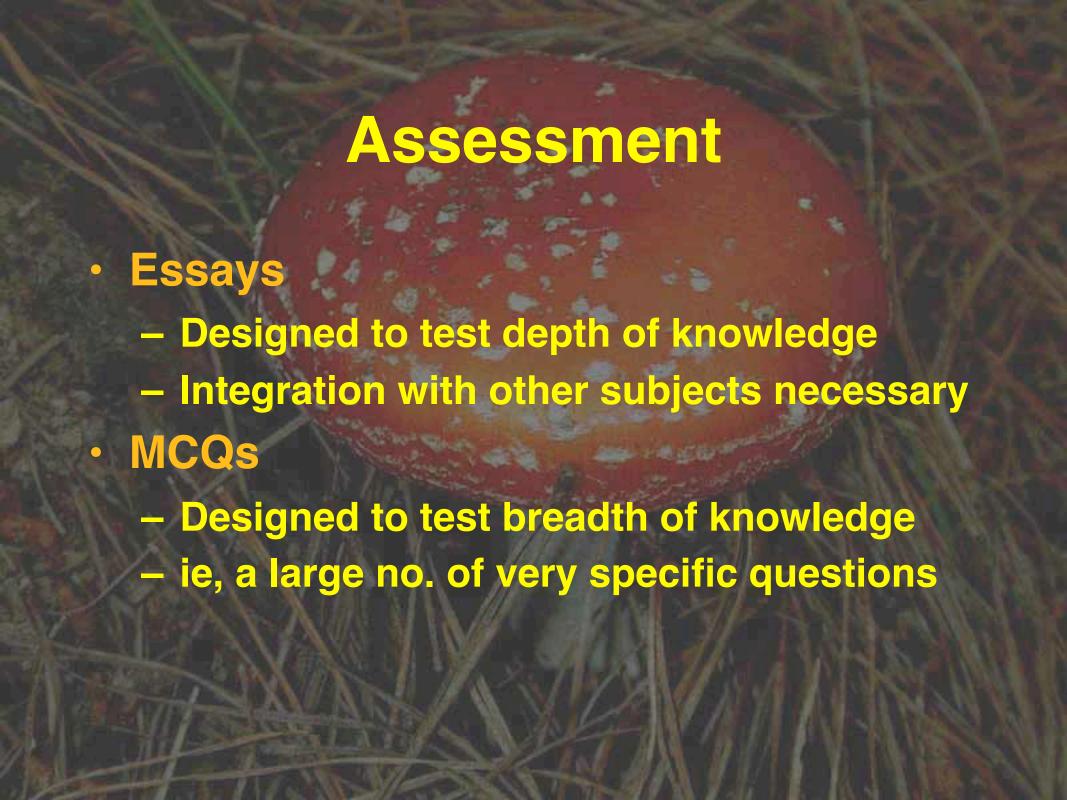


## Course objectives

- have a sound understanding of the effects, mechanism of action and uses of the major groups of drugs used to treat animals (the range of drugs will be extended in 195.409) which will allow you to use these drugs safely and effectively.
- be aware of drugs which are likely to be used in the near future (again, the range of drugs will be extended in 195.409)
- know how and where to obtain further information on drugs
- have a sound understanding of the principles of pharmacokinetics and how these are used to ensure that an animal receives the correct dose of drug
- be able to evaluate scientific and clinical reports of drug trials and apply this knowledge to veterinary practice



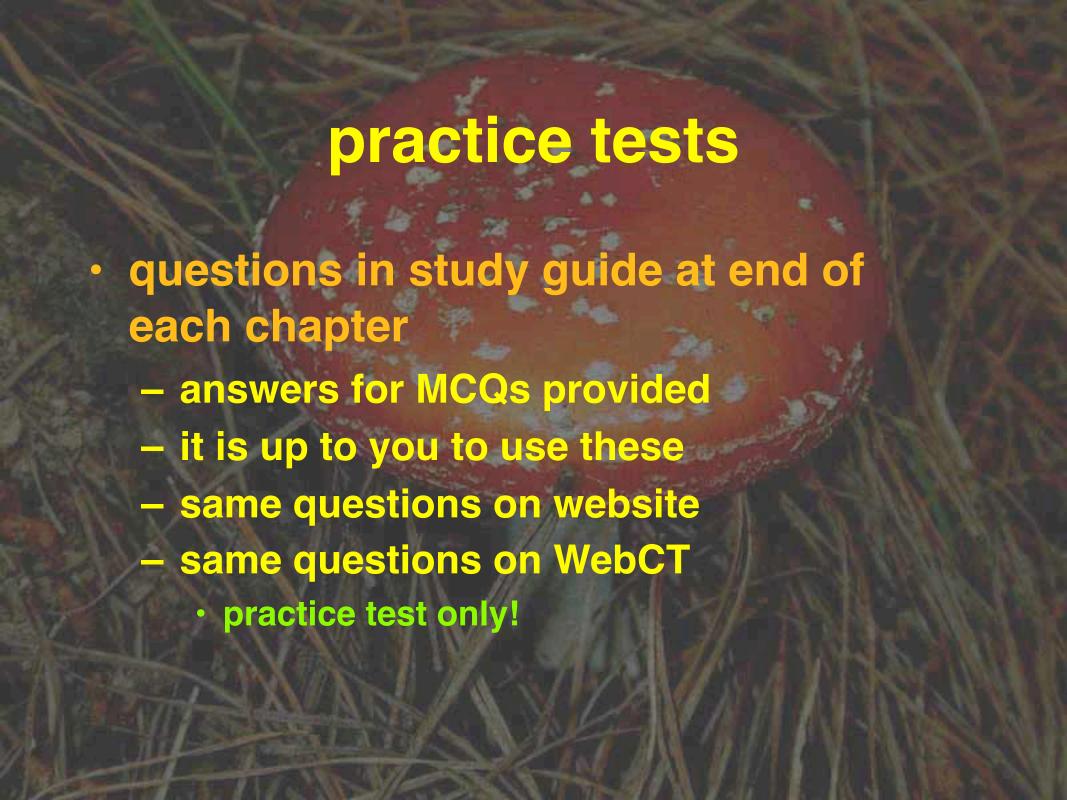


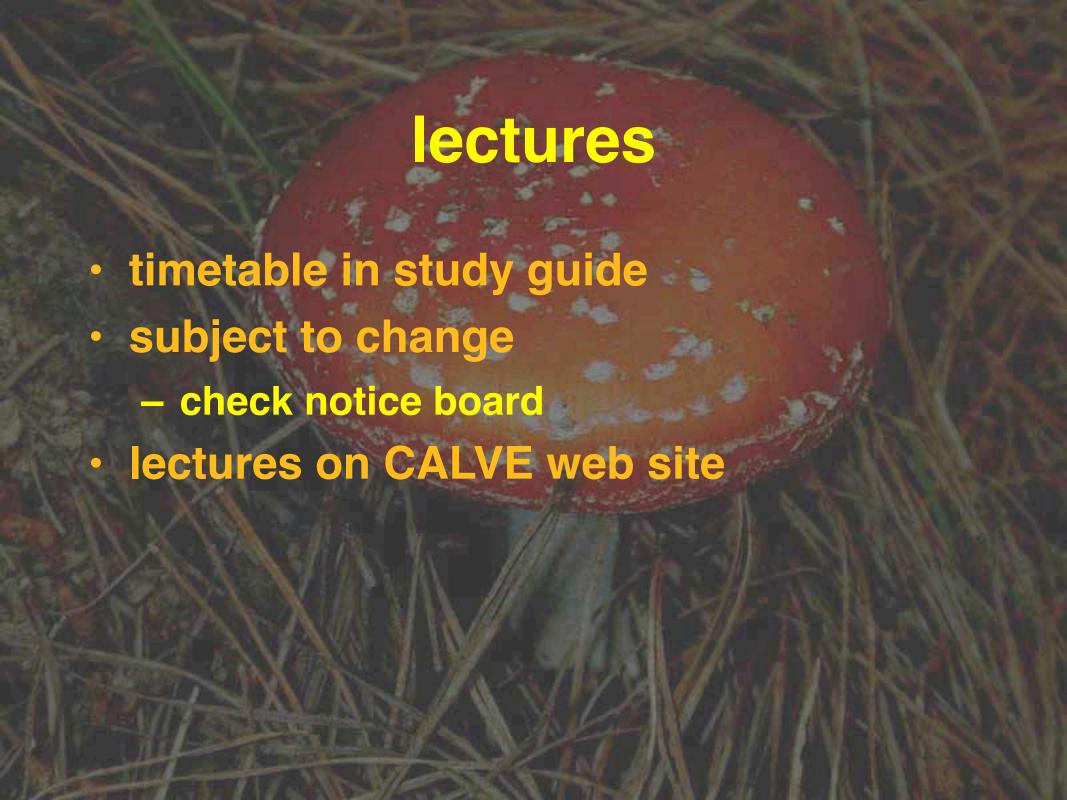


## **Exam marking**

- Essays
  - The facts +75%
  - Other pertinent info +10%
  - Concise communication +10%
  - Use of English +5%
  - Minor mistakes -5%
  - Stupid mistakes -10%
  - Dangerous mistakes -30%









- Choose groups of four
- You will be given the titles of 2 papers
- Go to the library and find your papers
- Decide on the major findings, reliability and relevance to veterinary medicine
- Write a 3000 word review
- hand it in by 20th May
- marks are shared equally



## **Analysis of methods**

- What are the authors trying to show?
  - Does the experimental design allow them to do this?
- Is the measure of outcome appropriate?
  - Observer bias, drug effects, etc
- Are there suitable controls?
- Were drug doses suitable?
- Are the numbers sufficient?



- Are the statistical tests appropriate?
- Are the results statistically significant?
- Are the results important?
- Are the conclusions justified by the data?
- How do the results compare to other studies?





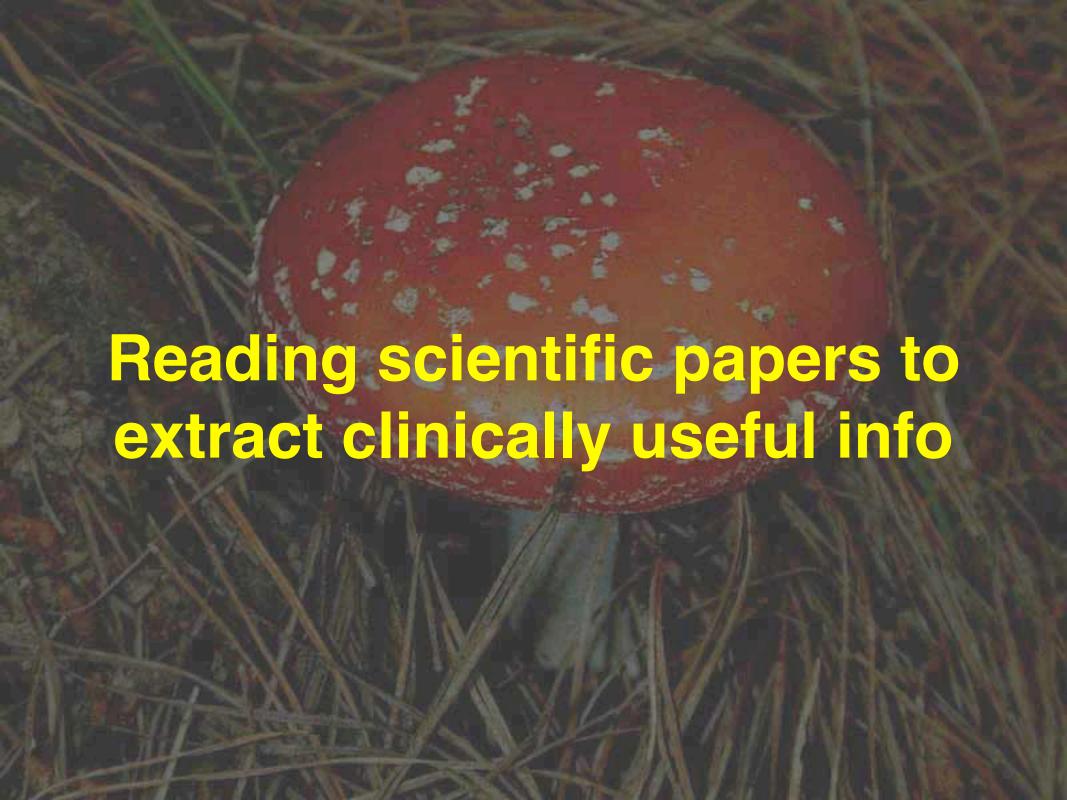


- Never use a long word where a short one will do
- If it is possible to cut out a word, cut it out
- Never use the passive sense where you can use the active
- Never use jargon if there is an English equivalent
- Break these rules where necessary

## Info required

- Before using drugs in animals ask
  - Does it work?
  - Is it safe?
    - What side effects are expected?
    - What monitoring is required?
  - What is the best dose and route?
  - How long is it likely to last?
  - Is it expensive?
  - Do the benefits outweigh the risks?







- Veterinary clinical trials
  - Science is usually conspicuously absent
- Human clinical trials
  - Limited relevance
- Basic science papers
  - Usually written by scientists with no idea about clinical problems

