

The Physical Sciences Question Bank - what next?

Dick Bacon

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University of Hull**

www.heacademy.ac.uk/physsci



The Physical Sciences Question Bank

Question bank design

Question bank features

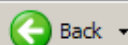
Suggestions - implemented

Suggestions - outstanding

The Physical Sciences Question Bank

| The interface is designed is to make it easy for academics to find sets of suitable questions.

| The system is designed is to make it easy to get the questions in front of students.



Back



Search



Favorites



Higher Education Academy Physical Sciences question bank (UKEL 8)

- Chemistry
 - Biological Chemistry and biochemistry
 - Inorganic Chemistry
 - Organic Chemistry
 - Nomenclature
 - Structure
 - .. Reactivity
 - Substitution
 - Stereochemistry
 - Physical Chemistry
 - Analytical Chemistry
 - Physics

Higher Education Academy
Physical Sciences Subject Centre
question bank v1.3.2.5 July 2008
email: r.bacon@surrey.ac.uk

log out



options

target domain difficulty feedback with or without apply
 Multiple choice Selection Pairing Ordering Text Numeric Hotspot


Chemistry > Organic Chemistry (13 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	ketoamide functional groups	view add
<input type="checkbox"/> <input type="checkbox"/> fb	identifying primary alcohols	view add
<input type="checkbox"/> <input type="checkbox"/> fb	recognise product of gentle thiol oxidation	view add
<input type="checkbox"/> <input type="checkbox"/> fb	recognise product when unsaturated alcohol is reduced	view add
Chemistry > Organic . . > Nomenclature (2 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	naming unsaturated hydrocarbon molecules	view add
Chemistry > Organic . . > Reactivity (25 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	identifying Polar Aprotic solvents (2)	view add
<input type="checkbox"/> <input type="checkbox"/> fb	identifying Polar Protic solvents (2)	view add
<input type="checkbox"/> <input checked="" type="checkbox"/> fb	nucleophilicity change down a group	view add
<input type="checkbox"/> <input checked="" type="checkbox"/> fb	effect of conjugate 1,2-addition to carbonyl group	view add
<input type="checkbox"/> <input checked="" type="checkbox"/> fb	relative power of different nucleophiles	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative nucleophilic abilities	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative leaving group reactivities	view add
<input type="checkbox"/> <input type="checkbox"/> fb	effect of charge on nucleophiles power	view add
Chemistry > Organic . . > Reactivity > Substitution (5 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	identifying best SN1 reaction solvent?	view add
<input type="checkbox"/> <input type="checkbox"/> fb	identifying best SN2 reaction solvent?	view add
Chemistry > Organic . . > Stereochemistry (7 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	property of anti and gauche conformers	view add
<input type="checkbox"/> <input type="checkbox"/> fb	definition of a racemate	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative conformation energies	view add

Create your
assessment
here.



checkout

Search text

apply



clr

 description keywords question

Double click to view a question

remove

move up

move down

clear

PSSC Question Bank - Microsoft Internet Explorer

Address <https://secure.eps.surrey.ac.uk/psscqb/hpad/sqltree/psqbs.php>

Higher Education Academy Physical Sciences question bank (UKEL 8)

target domain difficulty feedback with or without apply

Multiple choice Selection Pairing Ordering Text Numeric Hotspot

- Chemistry
 - Biological Chemistry and biochemistry
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 - Organic Chemistry
 - ... Nomenclature
 - ... Structure
 - ... Reactivity
 - ... Substitution
 - ... Stereochemistry
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Chemistry > Organic Chemistry (13 items)

- fb ketoamide functional groups
- fb identifying primary alcohols
- fb recognise product of gentle thiol oxidation
- fb recognise product when unsaturated alcohol is reduced

Chemistry > Organic . . > Nomenclature (2 items)

- fb naming unsaturated hydrocarbon molecules

Chemistry > Organic . . > Reactivity (25 items)

- fb identifying Polar Aprotic solvents (2)
- fb identifying Polar Protic solvents (2)
- nucleophilicity change down a group
- effect of conjugate 1,2-addition to carbonyl group

Search text

description keywords question

Double click to view a question

Create your assessment here.

Done Internet

Hierarchically structured list of topics

Searches and filters are applied only to
A selected topic and its descendents

PSSC Question Bank - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://secure.eps.surrey.ac.uk/psscqb/hpad/sqltree/psqbs.php> Go

Higher Education Academy Physical Sciences question bank (UKEL 8)

target **WebCT** domain all domains difficulty any feedback fb with or without apply

Multiple choice Selection Pairing Ordering Text Numeric Hotspot Info

Chemistry > Organic Chemistry (13 items) [list all](#)

fb ketoamide functional groups [view](#) [add](#)

view	add
view	add
view	add
view	add
list all	
view	add
view	add
view	add
view	add
view	add
view	add
list all	
view	add
view	add
list all	
view	add
view	add
view	add

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log out [i](#) options

Search text apply [i](#) [^](#) [v](#) clr

description keywords question

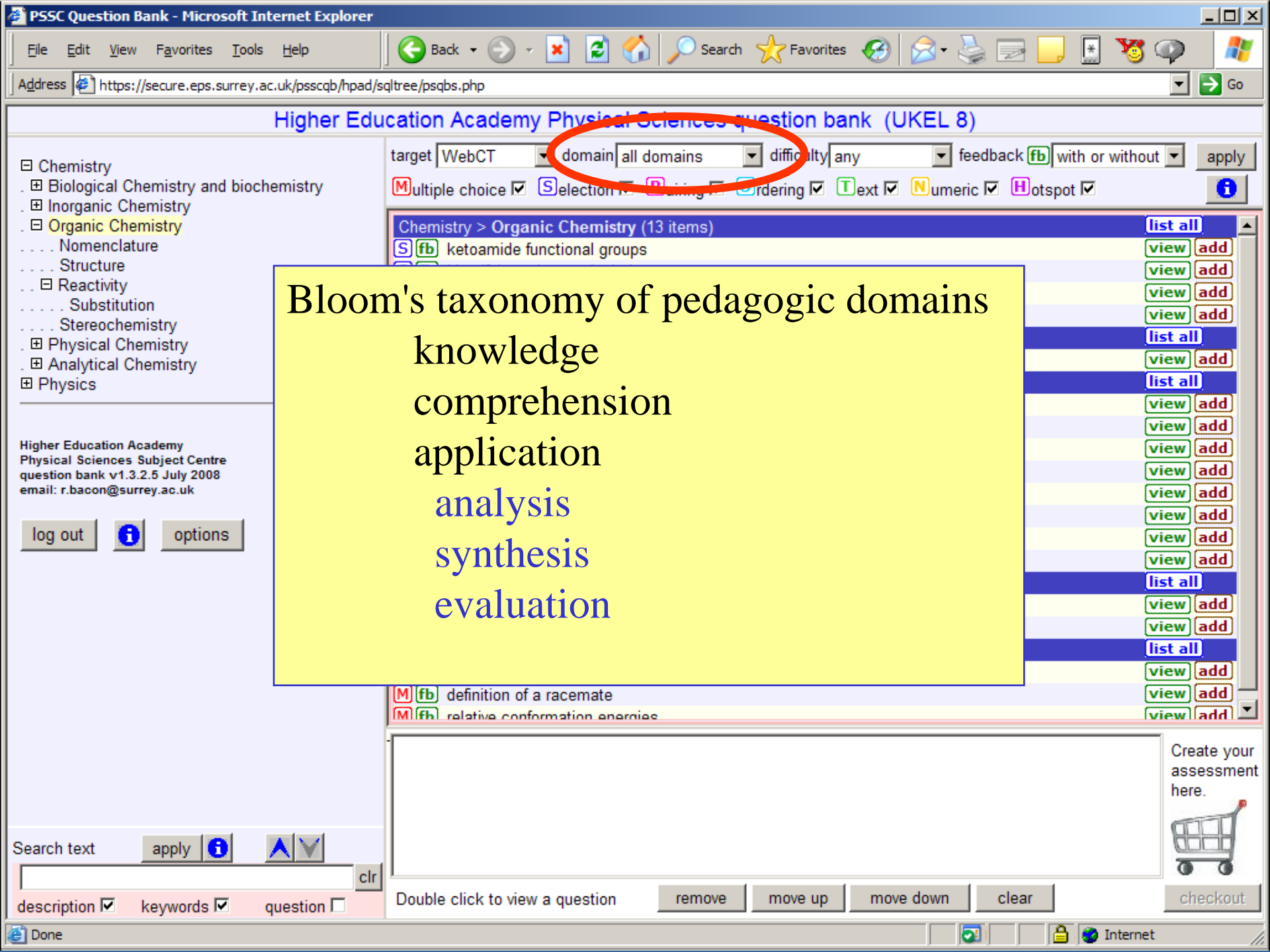
Double click to view a question

Create your assessment here. checkout

Done Internet

Target:

- WebCT
- Blackboard
- Moodle
- Questionmark Perception
- MS PowerPoint (2003)
- MS word (for printing)
- (QTI v1.2 xml)



Bloom's taxonomy of pedagogic domains

- knowledge
- comprehension
- application
- analysis
- synthesis
- evaluation

Higher Education Academy Physical Sciences question bank (UKEL 8)

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[log out](#) [i](#) [options](#)

target domain difficulty feedback with or without apply

text Numeric Hotspot [i](#)

UK Educational level

Choose the academic levels to include in your searches:

UKEL	English	Scottish
<input type="checkbox"/> Level 5	GCSE	FE level 1
<input type="checkbox"/> Level 6	AS level	FE level 2
<input type="checkbox"/> Level 7	A level	FE level 3
<input checked="" type="checkbox"/> Level 8	HE level 1	SHE level 2
<input type="checkbox"/> Level 9	HE level 2	SHE level 3
<input type="checkbox"/> Level 10	HE level 3	SHE level H
<input type="checkbox"/> Level 11	HE level M	SHE level M

Indicate which questions you have already downloaded.

[OK](#)

- [list all](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [list all](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)
- [view](#) [add](#)

definition of a racemate
 relative conformation energies


Search text [apply](#) [i](#) [^](#) [v](#)

[clr](#)

description keywords question

Double click to view a question [remove](#) [move up](#) [move down](#) [clear](#) [checkout](#)

Create your assessment here.



PSSC Question Bank - Microsoft Internet Explorer

Address: https://secure.eps.surrey.ac.uk/psscqb/hpad/sqltree/psqbs.php

Higher Education Academy Physical Sciences question bank (UKEL 8)

target: WebCT domain: all domains difficulty: any feedback: fb with or without

Multiple choice
 Selection
 Pairing
 Ordering
 Extra
 Comments
 Stop

- Chemistry
 - Biological Chemistry and biochemistry
 - Inorganic Chemistry
 - Organic Chemistry
 - ... Nomenclature
 - ... Structure
 - ... Reactivity
 - ... Substitution
 - ... Stereochemistry
 - Physical Chemistry
 - Analytical Chemistry
 - Physics

Chemistry > Organic Chemistry (13 items) [list all](#)

Difficulty	Feedback	Question Text	view	add
S	fb	ketoamide functional groups	view	add
S	fb	identifying primary alcohols	view	add
M	fb	recognise product of gentle thiol oxidation	view	add
M	fb	recognise product when unsaturated alcohol is reduced	view	add
list all				
view add				
view add				
view add				
view add				
view add				
view add				
view add				
list all				
view add				
view add				

Chemistry > Organic . . . > Stereochemistry (7 items) [list all](#)

M	fb	property of anti and gauche conformers	view	add
M	fb	definition of a racemate	view	add
M	fb	relative conformation energies	view	add

Difficulty

Feedback

simple with

intermediate without

difficult

log out [i](#) options


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Search text apply [i](#) [^](#) [v](#)

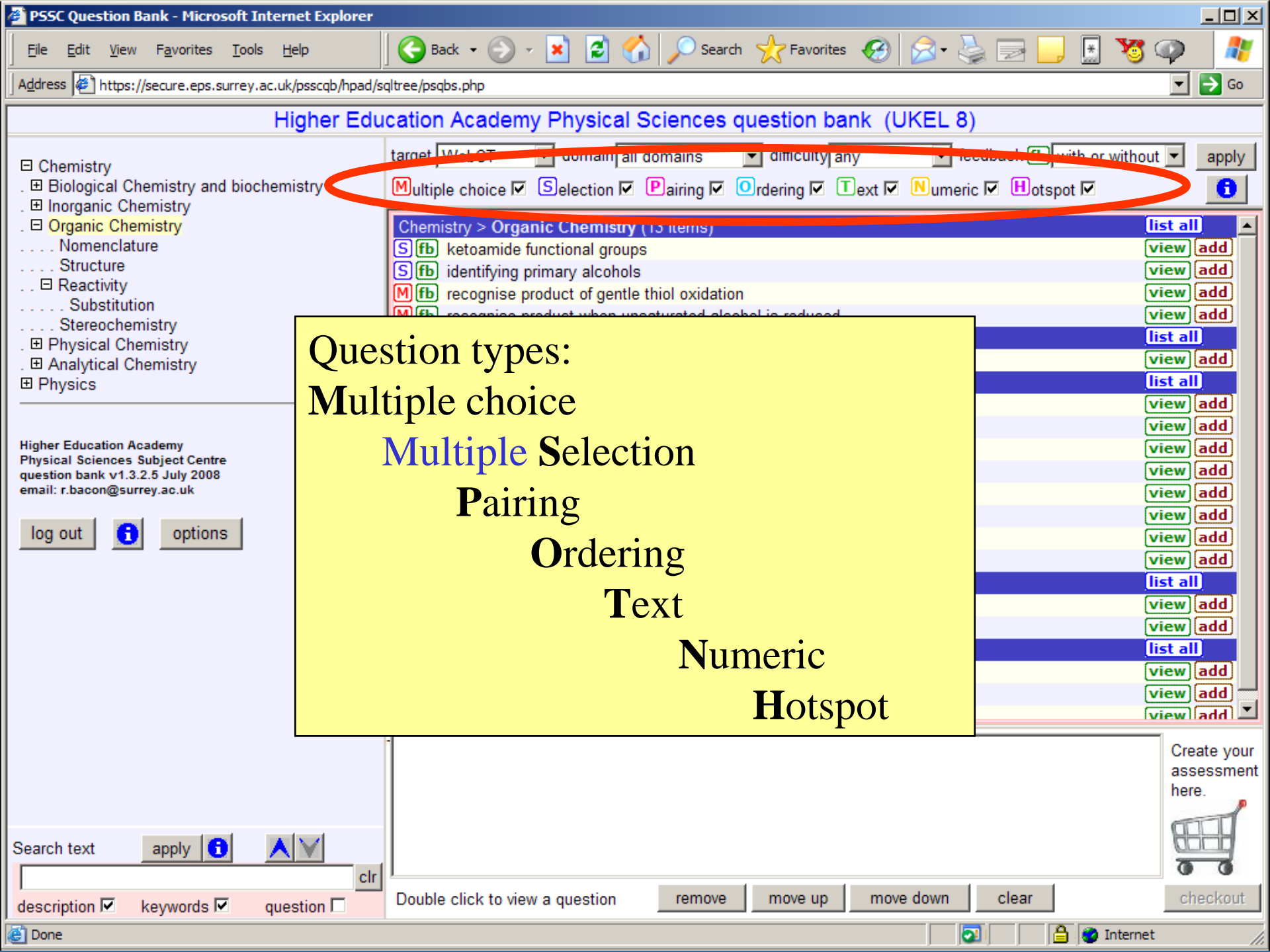
description keywords question

Double click to view a question remove move up move down clear

Create your assessment here.



checkout



Higher Education Academy Physical Sciences question bank (UKEL 8)

- Chemistry
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log out



options

target domain difficulty feedback with or without apply

Multiple choice Selection Pairing Ordering Text Numeric Hotspot

Chemistry > Organic Chemistry (13 items)		list all
<input checked="" type="checkbox"/>	ketoamide functional groups	view add
<input checked="" type="checkbox"/>	identifying primary alcohols	view add
<input checked="" type="checkbox"/>	recognise product of gentle thiol oxidation	view add
<input checked="" type="checkbox"/>	recognise product when unsaturated alcohol is reduced	view add
		list all
		view add
		view add
		view add
		view add
		view add
		view add
		list all
		view add
		view add
		list all
		view add
		view add
		list all
		view add
		view add

Question types:
Multiple choice
Multiple Selection
Pairing
Ordering
Text
Numeric
Hotspot

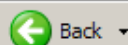
Create your assessment here.

checkout

Search text

description keywords question

Double click to view a question



Back



Search



Favorites



Higher Education Academy Physical Sciences question bank (UKEL 8)

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options

target domain difficulty feedback with or without
 Multiple choice Selection Pairing Ordering Text Numeric Hotspot

Chemistry > Organic Chemistry (13 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	ketoamide functional groups	view add
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Chemistry > Organic . . > Nomenclature (2 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	naming unsaturated hydrocarbon molecules	view add
Chemistry > Organic . . > Reactivity (25 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	identifying Polar Aprotic solvents (2)	view add
<input type="checkbox"/> <input type="checkbox"/> fb	identifying Polar Protic solvents (2)	view add
<input type="checkbox"/> <input type="checkbox"/> fb	nucleophilicity change down a group	view add
<input type="checkbox"/> <input type="checkbox"/> fb	effect of conjugate 1,2-addition to carbonyl group	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative power of different nucleophiles	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative nucleophilic abilities	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative leaving group reactivities	view add
<input type="checkbox"/> <input type="checkbox"/> fb	effect of charge on nucleophiles power	view add
Chemistry > Organic . . > Reactivity > Substitution (5 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	identifying best SN1 reaction solvent?	view add
<input type="checkbox"/> <input type="checkbox"/> fb	identifying best SN2 reaction solvent?	view add
Chemistry > Organic . . > Stereochemistry (7 items)		list all
<input type="checkbox"/> <input type="checkbox"/> fb	property of anti and gauche conformers	view add
<input type="checkbox"/> <input type="checkbox"/> fb	definition of a racemate	view add
<input type="checkbox"/> <input type="checkbox"/> fb	relative conformation energies	view add

Create your
assessment
here.



checkout

Search text

apply



clr

 description keywords question

Double click to view a question

remove

move up

move down

clear

PSSC Question Bank - Microsoft Internet Explorer

Address <https://secure.eps.surrey.ac.uk/psscqb/hpad/sqltree/psqbs.php>

Higher Education Academy Physical Sciences question bank (UKEL 8)

target domain difficulty feedback with or without

Multiple choice Selection Pairing Ordering Text Numeric Hotspot

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target domain difficulty feedback with or without

Multiple choice Selection Pairing Ordering Text Numeric Hotspot

Chemistry > Organic Chemistry (1 item)

fb recognise that reaction of alcohol and carboxylic acid forms an ester

Chemistry > Organic . . > Reactivity (1 item)

amine addition reactions to aldehydes

Chemistry > Organic . . > Reactivity > Substitution (4 items)

fb identifying best SN2 reaction solvent?

fb relative reactivities of SN2 reaction solvents

fb identifying best SN1 reaction solvent?

fb relative reactivities of SN1 reaction solvents

Searches can be applied to descriptions, keywords OR the question text.
Three text search filters can ANDed together (or AND NOT).

Search text

description keywords question AND (NOT)

description keywords question AND (NOT)

description keywords question AND (NOT)

Create your assessment here.

Done

Title : Bath collection RY15

Description : identifying Polar Aprotic solvents (2)

Keywords : organic, reactivity, polar aprotic solvent, toluene, water, DMF, ethanol

Type : Selection

Domain : comprehension

Difficulty : simple

Academic level : HE 1 / SHE 2

Question :

Which two of the following are NOT polar aprotic solvents?

option "A" : Ethanal

option "B" : DMSO

option "C" : Toluene

option "D" : Water

option "E" : DMF

Results:

If "A" (score += -1): No. Polar Aprotic solvents contain no OH or NH groups, so there are no acidic hydrogen atoms - i.e. protons.

If "B" (score += -1): No. Polar Aprotic solvents contain no OH or NH groups, so there are no acidic hydrogen atoms - i.e. protons.

If "C" (score += 0.5): Yes, that's right. Toluene is not a polar aprotic solvent.

If "D" (score += 0.5): s, that's right. Water is not a polar aprotic solvent.

If "E" (score += -1): No. Polar Aprotic solvents contain no OH or NH groups, so there are no acidic hydrogen atoms - i.e. protons.

Downloads : 1

Comments: (none for this question)

Enter a comment about this question.

Submit

Reset

Close

Navigation icons: printer, mail, folder, search, smiley, speech bubble, windows.

Go button

8)

feedback fb with or without apply

generic Hotspot info

list all
view add
view add
view add
view add
list all
view add
list all
view add
view add
view add
list all
view add
view add
view add
list all
view add
view add
view add

Create your assessment here.



clear checkout

PSSC Question Bank - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://secure.eps.surrey.ac.uk/psscqb/hpad/sqltree/psqbs.php> Go

Higher Education Academy Physical Sciences question bank (UKEL 8)

target domain difficulty feedback with or without apply

Multiple choice Selection Pairing Ordering Text Numeric Hotspot

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log out options

Search text apply

description keywords question

Double click to view a question

Create your assessment here.

Chemistry > Organic Chemistry (13 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	ketoamide functional groups	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	identifying primary alcohols	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	recognise product of gentle thiol oxidation	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	re...	view add
Chemistry > Organic Chemistry (13 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	na...	view add
Chemistry > Organic Chemistry (13 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	id...	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	id...	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	nu...	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	ef...	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	re...	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	relative nucleophilic abilities	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	relative leaving group reactivities	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	effect of charge on nucleophiles power	view add
Chemistry > Organic Chemistry > Reactivity > Substitution (5 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	identifying best SN1 reaction solvent?	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	identifying best SN2 reaction solvent?	view add
Chemistry > Organic Chemistry > Stereochemistry (7 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	property of anti and gauche conformers	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	definition of a racemate	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	relative conformation energies	view add

! Help !

Help for browsing

1. Use the tree structure on the left to get to the topic area in which you want some questions. Click on the + or - signs to open or close levels in the structure, click on the topic itself to have the questions listed. If there are sub topics containing questions then they will be displayed as well.
2. If you have a target assessment system, then select it in the **target** drop-down list, and then only questions suitable (or currently in a suitable form) for that system will be listed, and questions downloaded will be in a suitable form for import into that system.
3. The **domain** refers to the educational domain defined by [Bloom's taxonomy](#). In this implementation we are aggregating the four highest levels into one. A range or a value can be selected from the drop-down list.
4. The level of **difficulty** can be selected from the **difficulty** drop down list, or left as *any*.
5. The **type** of question can be controlled by the check boxes next to the named question types. The type of each question in the list is shown using the same icons as used beside the check boxes.
6. The **view** button by each question in the list will display metadata for that question and the question itself. It will also show the feedback given to a user for each response.
7. The **add** button adds a question to the 'shopping basket' list below, which can be used to build up a complete assessment. The questions can be re-ordered and, when ready, downloaded as a single assessment ready for import into the designated assessment system, or for import into a Word document if a paper form is specified.
8. Since there are often too many questions to be shown in the list, particularly when multiple topics are being displayed, a subset of the available questions is displayed as necessary. The **list all** button

- Chemistry
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 - ... Stereochemistry
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 - Analytical Chemistry
 - Physics

Higher Education Academy
Physical Sciences Subject
question bank v1.3.2
email: r.bacon@surrey.ac.uk

log out



Search text

description keywords question

Double click to view a question

remove

move up

move down

clear

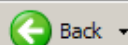
Create your
assessment
here.



checkout

Done

Internet



Back



Search



Favorites



Higher Education Academy Physical Sciences question bank (UKEL 8)

- Chemistry
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log out



options

target domain difficulty feedback with or without apply
 Multiple choice Selection Pairing Ordering Text Numeric Hotspot

Chemistry > Organic Chemistry (13 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	recognise the type of compound formed during alkene hydrolysis	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	sugar functional groups	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	ketoamide functional groups	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	identification of primary amines	view add
Chemistry > Organic . . > Nomenclature (2 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	Enter the correct name for: Methylpropanoate	view add
Chemistry > Organic . . > Reactivity (25 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	relative leaving group abilities (2)	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	definition of Lewis base	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	properties of a Polar Protic solvents	view add
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> fb	reagents to convert 2ndary alcohol into a ketone	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	identifying Polar Aprotic solvents (2)	view add
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> fb	nucleophilicity change down a group	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	properties of leaving groups	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	relative nucleophilic abilities	view add
Chemistry > Organic . . > Reactivity > Substitution (5 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	identifying best SN1 reaction solvent?	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	relative reactivities of SN1 reaction solvents	view add
Chemistry > Organic . . > Stereochemistry (7 items)		list all
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	property of anti and gauche conformers	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	properties of enantiomers	view add
<input checked="" type="checkbox"/> <input type="checkbox"/> fb	definition of meso compound	view add

Q1 properties of a Polar Protic solvents
 Q2 reagents to convert 2ndary alcohol into a ketone
 Q3 identifying Polar Aprotic solvents (2)

Create your
assessment
here.



checkout

Double click to view a question

remove

move up

move down

clear

Search text

apply



clr

description keywords question

The Physical Sciences Question Bank

It was suggested that restricting use to Internet Explorer (the original browser required) would seriously limit the bank's use, and that making it work in Firefox (for example) would allow use with non-Windows operating systems.

The Physical Sciences Question Bank

It was suggested that PowerPoint should become a target, to support the use of questions in lectures. This would facilitate their use with electronic voting systems.

It was suggested that restricting use to Internet Explorer (the original browser required) would seriously limit the bank's use, and that making it work in Firefox (for example) would allow use with non-Windows operating systems.

The Physical Sciences Question Bank

So the list of targets is now:

WebCT

Blackboard

Moodle

Questionmark Perception

MS word (for printing)

MS PowerPoint (2003)

(QTI v1.2 xml)

.. formative or summative

.. set as coursework

.. offered as a learning aid

.. lecture or tutorial

.. electronic voting system

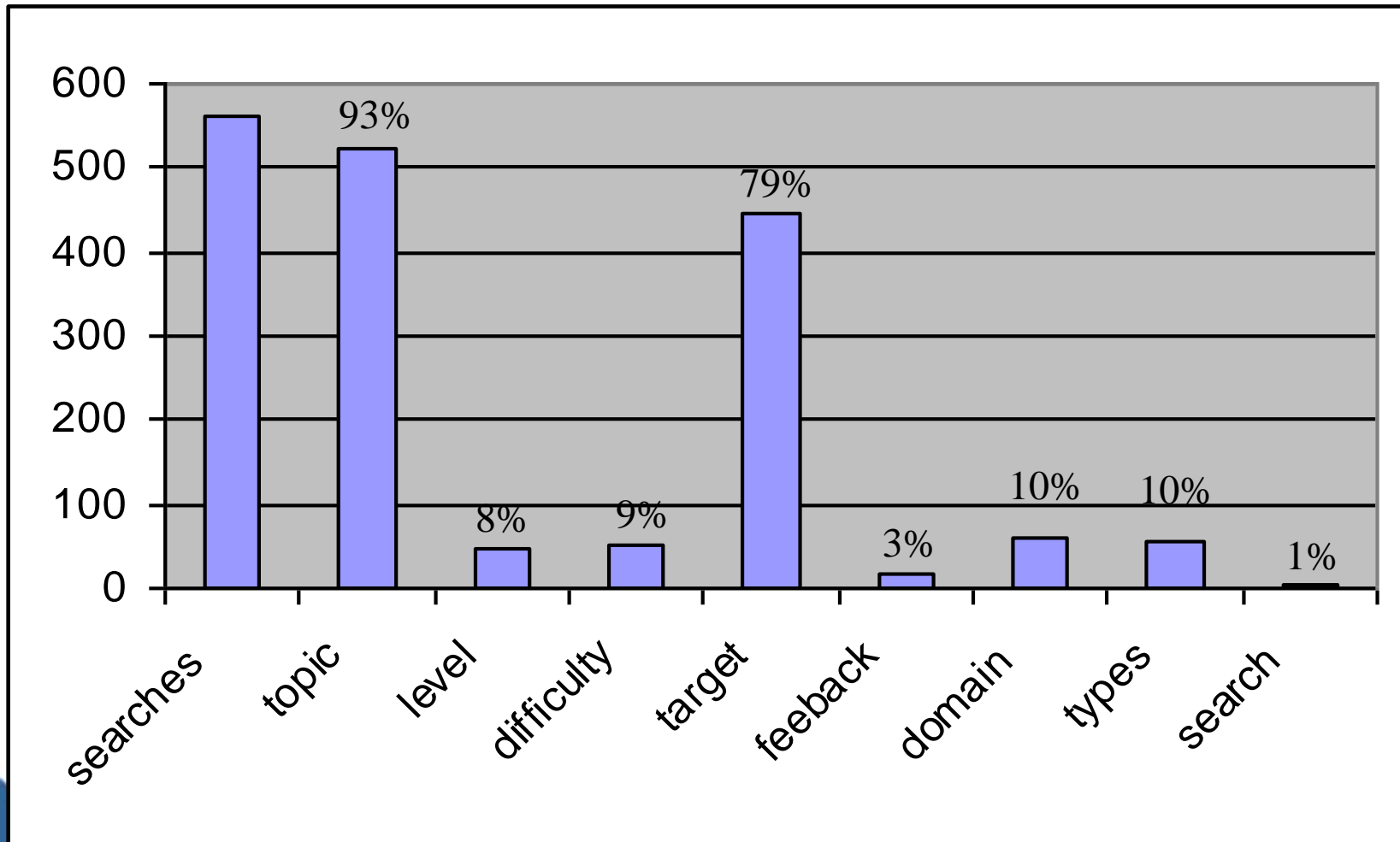
The Physical Sciences Question Bank

It has been suggested that statistics should be kept of the use of the database, and about the use of questions.

It was suggested that PowerPoint should become a target, to support the use of questions in lectures. This would facilitate their use with an electronic voting system.

The Physical Sciences Question Bank

Use of features in 563 searches in 50 sessions



214 questions were downloaded

The Physical Sciences Question Bank

Star rating problems :

Some questions differ between different assessment systems.

Do we need a question rating and a feedback rating?

How do we deal with unrated questions? i.e. if only popular questions are listed (or used), a question could remain unpopular merely because it was never listed (or used).

Would post-use ratings ever be set?

The Physical Sciences Question Bank

Other suggested question statistics include:

Number of downloads

Number of downloads for each target

Star rating for each question

- a) pre use
- b) post use

Students' responses to each question

The Physical Sciences Question Bank

It has been suggested that information about feedback styles could be listed and used in a new filter.

e.g.

if right : affirm correct
 correct answer given
 explanation of solution

if wrong : affirm incorrect
 correct answer given
 explanation of solution
 hint based upon response
 response error explained

or perhaps there could be a choice at download time.

The Physical Sciences Question Bank

It has been suggested that users should be invited to modify questions if they wish, and to submit these to the question bank to be available as alternatives.

It has been suggested that information about feedback styles could be listed and used in a new filter.

The Physical Sciences Question Bank

It is intended to integrate an assessment viewer into the question bank, so that questions can be previewed as the students would see them (in addition to the synopsis).

The Physical Sciences Question Bank

Access the question bank from the Physical Sciences web site (under Q)

www.heacademy.ac.uk/physsci/

or email

r.bacon@surrey.ac.uk

or

t.madden@hull.ac.uk

for further information,

or if you have questions to contribute,

or further suggestions for improvements,

or if you have any other comments to make.