The sustainability literacy approach	Advantages				
	The approach draws on an established concept that has some currency in				
The percentage of learners who attain the required level of sustainability	higher education. It relates to other familiar concepts in ESD such as political				
literacy	literacy, social literacy, environmental literacy, action competence. The approach draws on established guidance provided by the Panel for ESD				
Written tests at the end of primary, secondary and further/higher education	and developed on the QCA ESD website.				
draw on the Forum for the Future's concept of sustainability literacy and the	The approach reflects NC assessment with attainment targets and key stage				
objectives (knowledge, skills and values) suggested for each stage of	tests that are familiar to teachers.				
education by the Panel for ESD.	Disadvantages				
	Marking schemes for the KS tests have not yet been developed and may				
	prove problematic (SD a discursive concept).				
	Tests will require (paid?) marking by individuals with ESD expertise.				
	Some will regard the tests as too prescriptive (see action research approach).				
The sustainable schools approach	Advantages				
Demonstrate of Committee dealers and the section of	The test is based on the DfES framework and encourages good practice in				
Percentage of pupils that are able to relate activities carried out in school to	schools.				
key themes of sustainable development and can recognise the values, skills	The test can be objectively marked (but some themes and routes overlap).				
and knowledge that are relevant to taking considered action on issues relating to such development.	There is much scope to change the 8 examples on page 1 and the four examples on page 3 (Appendix 2).				
to such development.	Disadvantages:				
An objective test for Yr9 pupils based on the DfES framework and self-	It tests pupils' ability to recognise values, skills and knowledge relevant to				
assessment tool for sustainable schools	becoming active citizens for SD rather than their acquisition of values, skills				
assessment tool for sustainable schools	and knowledge.				
The citizenship survey approach	Advantages:				
The enizensmip survey approach	The approach draws on an established study with a ready-made route to				
The percentage of pupils who report knowledge, attitudes and activities	relevant data.				
relevant to active citizenship for a sustainable society in a questionnaire used	Provides a model of how ESD might link with citizenship education.				
by the NFER study into citizenship education	Disadvantages:				
	The ten year study runs only until 2009. Extension is uncertain so this				
Makes use of existing and possible additional items in questionnaires that	approach might yield two years data at best.				
form part of an ongoing NFER study. This focuses on the impact of the	Not possible to add significant new content as this would unbalance				
introduction of citizenship education into schools.	questionnaire and require more than 45 minutes of classroom time.				
	The cautious response to this approach from the ESD community when				
	raised by Jake Reynolds's in 2005 (page 6).				
	· · · · · · · · · · · · · · · · · · ·				

The frame of mind approach	Advantages:				
The percentage of learners who have development sustainability as a frame of mind.	The approach has a firm philosophical foundation and focuses on a frame of mind or orientation towards nature rather than outcomes determined by policy makers. It encourages teachers to address the psycho-emotional dimensions of learning.				
The writing of Michael Bonnett and others suggests ESD should focus on eight objectives. These have been used to design a test to measure whether Yr11 pupils have developed sustainability as a frame of mind. Test for other ages / stages could	It can accommodate the emerging DfES approach to sustainable (caring) schools. Disadvantages: It will be difficult to agree on a marking scheme and find knowledgeable markers				
be developed.	sympathetic to the approach. Somewhat distant from existing practice. Some will see the approach as ESD adopting 'new age' philosophy or romanticism.				
The dilemma approach	Advantages:				
 The percentage of learners having the skill to match imaginary characters' decisions to the knowledge and values that is likely to have prompted such decisions. Dilemmas might focus on decisions taken by young people as consumers, citizens / voters, or workers. A dilemma for Yr11 pupils based on a consumer decision has been developed. 	Pupils are likely to find the dilemmas interesting and relevant to their own lives. May be possible to integrate the dilemma with classroom teaching and mark it objectively (a software or web based resource may be appropriate). Disadvantages: Selection of relevant knowledge and values is somewhat arbitrary. Answers are not really objective and exercise could be seen to lead pupils to 'right' answers				
The action research approach (or sustainable schools approach 2) The percentage of learners who have successfully taken part in action learning designed to explore ways of creating a more sustainable society.	Advantages: Builds on established theory and practice and allows for open-ended learning. The approach contributes to community participation and civic renewal. The approach may encourage links with distant communities (global dimension).				
An action research project focussing on an issue in the school (college/university) and/or community (near and/or far) allows learners to develop and refine their own definitions and indicators of sustainable development and determine what knowledge, skills and values are appropriate to realising such development.	Disadvantages: The lack of a standard framework and forms of accreditation for such projects. No established monitoring of the extent of such learning within educational institutions				

Criteria V	Sustainability	Sustainable	Citizenship	Action	Frame of	Dilemma
Approach >	literacy	schools	survey	Research	Mind	
Validity – the approach measures the extent to which learners have						
acquired the skills, knowledge and value base to be active citizens						
in creating a more sustainable society						
Reliability – if repeated at intervals the approach yields measures						
that can reliably be compared and will show trends over time.						
Simplicity – the approach is understandable and meaningful to						
learners and the wider community. It encourages their engagement						
with issues of SD.						
Objectivity – the approach is free of bias. The tests that yield the						
indicator can be set and marked objectively in ways that eliminate						
the subjectivity of the writer and marker.						
Cost – the approach can yield an indicator at reasonable cost. The						
costs of administering and marking the test that yields the indicator						
are not excessive.						
Equal opportunities – the approach allows all learners to show						
evidence of relevant skills, knowledge and values, irrespective of						
race, class, gender or disability.						
Good practice – the approach reflects and encourages good						
practice as regards sustainable schools and learning and teaching in						
ESD.						
Government policy – the approach reflects Government policies						
on education and sustainable development.						
Total score						

First indicate your personal first and second choice approaches by writing 1 and 2 next to them on the top row.

Then use the table to score each of the six approaches. In each box write a number from 0 to 3 according to whether, in your opinion, the approach meets the criteria not at all (0); a little (1); reasonably well (2); very well (3). Then total each row. Is there a further criterion that you consider an ESD indicator should meet? If so please describe it here:

Name