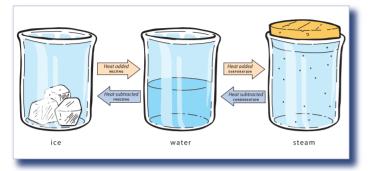
Task:		NEMP	Dirty Water
Approach:	One to one	Access Task	Year: 4 & 8
Focus:	Evaporation and condensation		
Resources:	Video recording on laptop computer, pictur	re	

Questions / instructions:

This activity uses the computer.

Place the picture of the water cycle in front of the student.



1. Here is a picture showing the three forms of water.	
Use the picture to tell me how water changes.	
ice becomes water when it is heated	

84	70	and/or melts
5 [.]	25	water becomes ice when it is cooled and/or freezes
74	39	water becomes steam when it is heated and/or evaporates
3	9	steam becomes water when it is cooled and/or condenses

% response y4 ∎ y8

Point to the appropriate arrows as you give the following explanation.

So if you heat ice, it will become water. If you cool down or freeze water it will become ice. If you heat water, it will become steam. If you cool steam, it will become water.

Now I'll show you a video which shows dirty water being turned into clean water. Then I'll ask you to tell me how the dirty water was turned into clean water.



No sound. Video demonstrates placing empty glass in hot dirty water; covering bowl with gladwrap; placing weight in centre of covering above empty glass; closeup of droplets running down toward weight and dripping into the glass; removing weight and covering; showing glass now with clean water.

	% res	ponses		%
	y 4	y8		
Click the <i>Dirty Water</i> button. The video will start.				
Tell me how some of the dirty water was turned into clean water.				
water in bowl evaporates/turns to steam	35	72	Total score: 8–9	
dirt stays in rest of water	5	25	6–7	
steam condenses on plastic wrap/becomes	00	~~~	4–5	2
water droplets on plastic wrap	20	60	2–3	3
water droplets slide down plastic wrap to low point <i>(centre)</i>	24	63	0–1	3
(clean) water droplets fall into glass	48	88		

Commentary:

Year 8 students performed much better than year 4 students on this task.