Time	Audio	Visual
0:00-0:07	We are going to explore how microbes	"Key Stage Three: Hand Hygiene
	can grow on our hands. We will do this	Petri Dish Experiment"
0:07-0:22	by growing microbes on a Petri dish The resources required are two Petri	The resources are laid out on the
0.07-0.22	dishes of nutrient agar per student. You	table: two stacked Petri dishes, a
	could use white bread as a substitution.	pump bopttle of hand soap, a roll
	The class will also need permanent	of paper towels, a permanent
	markers, soap, water and paper towels	marker, and a roll of sticky tape
0:22-0:27	Please take a moment to look at the e-	"Please look at the e-Bug lesson
	Bug lesson plan for information on	plan for information on health and
0:28-0:45	health and safety Label one Petri dish clean and the other	safety" Two Petri dishes are placed next
0.20-0.43	dirty. Ask students to touch different	to each other on the table. Three
	objects in the classroom that may have	fingers are pressed into the agar
	been touched by others such as door	gel inside the Petri dish, and the
	handles. Then ask them to place their	lid is put on and the dish is turned
	finger firmly in the Petri dish on the dish labelled dirty.	upside down
0:46-0:54	Now ask all students to wash their	Timelapse of hands being
	hands thoroughly with soap for at least	washed with soap under running
	20 seconds	water
0:54-1:04	Ask students to place their clean finer	Three fingers are pressed into the
	firmly on the clean Petri dish. Place the Petri dishes in a warm, dark place for 48	agar gel inside the Petri dish, and the lid is put on and then dish is
	hours	turned upside down
1:05-1:25	Discuss with your class. What can you	Two Petri dishes are laid next to
	see on the clean and dirty Petri dishes?	each other, one shows three
	What does this tell us about washing our	streaks of bacteria where the dirty
	hands? This experiment shows that	fingers were pressed, and the
	microbes replicate and grow when they	other shows no bacteria where
	are not washed away thoroughly with soap for 20 seconds. This is why hand	the clean fingers were pressed
	hygiene can prevent the growth and	
	spread of harmful microbes	
1:26-1:33	Go to www.e-Bug.eu for more ideas on	"For the full lesson plan,
	how to teach about hand hygiene	extension activities, work sheets,
		answers, and much more visit the
		e-Bug website: www.e-Bug.eu"