Katie Chapman, of Beaconsfield High School, decided to make a lamp and shade for her A2 designing and making project in 2004.

There are no shortage of lamps and shades on the market.

However, Katie wanted to make a lamp and shade that would not only be attractive for herself and people of her age range, but also something which would use as many recycled materials as possible.

Her final design uses a wide range of stuff she collected from friends, family and recycling bins – old photographic slides, a shower rail, a mobile phone charger, washers and a coat hanger. The only thing she bought was the LED bulb.

It not only looks good in her bedroom, it also meets lots of sustainable design criteria – it’s a lovely social example because the slides are of her family, it’s economically sustainable, costing very little whilst maintaining skills, and environmentally it’s great since it uses so few new materials.