Education

How to be top

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What works in education: the lessons according to McKinsey

THE British government, says Sir Mi-L chael Barber, once an adviser to the former prime minister, Tony Blair, has changed pretty much every aspect of education policy in England and Wales, often more than once. "The funding of schools, the governance of schools, curriculum standards, assessment and testing, the role of local government, the role of national government, the range and nature of national agencies, schools admissions"-you name it, it's been changed and sometimes changed back. The only thing that hasn't changed has been the outcome. According to the National Foundation for Education Research, there had been (until recently) no measurable improvement in the standards of literacy and numeracy in primary schools for 50 years.

England and Wales are not alone. Australia has almost tripled education spending per student since 1970. No improvement. American spending has almost doubled since 1980 and class sizes are the lowest ever. Again, nothing. No matter what you do, it seems, standards refuse to budge (see chart). To misquote Woody Allen, those who can't do, teach; those who can't teach, run the schools.

Why bother, you might wonder. Nothing seems to matter. Yet something must. There are big variations in educational standards between countries. These have been measured and re-measured by the OECD's Programme for International Student Assessment (PISA) which has established, first, that the best performing countries do much better than the worst and, second, that the same countries head such league tables again and again: Canada, Finland, Japan, Singapore, South Korea.

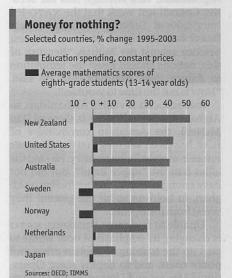
Those findings raise what ought to be a fruitful question: what do the successful lot have in common? Yet the answer to that has proved surprisingly elusive. Not more money. Singapore spends less per student than most. Nor more study time. Finnish students begin school later, and study fewer hours, than in other rich countries.

Now, an organisation from outside the teaching fold-McKinsey, a consultancy that advises companies and governments-has boldly gone where educationalists have mostly never gone: into policy recommendations based on the PISA findings. Schools, it says*, need to do three things: get the best teachers; get the best out of teachers; and step in when pupils start to lag behind. That may not sound exactly "first-of-its-kind" (which is how Andreas Schleicher, the OECD's head of education research, describes McKinsey's approach): schools surely do all this already? Actually, they don't. If these ideas were really taken seriously, they would change education radically.

Begin with hiring the best. There is no question that, as one South Korean official put it, "the quality of an education system cannot exceed the quality of its teachers." Studies in Tennessee and Dallas have shown that, if you take pupils of average ability and give them to teachers deemed in the top fifth of the profession, they end up in the top 10% of student performers; if you give them to teachers from the bottom fifth, they end up at the bottom. The quality of teachers affects student performance more than anything else.

Yet most school systems do not go all out to get the best. The New Commission on the Skills of the American Workforce, a non-profit organisation, says America typically recruits teachers from the bottom third of college graduates. Washington, DC recently hired as chancellor for its public schools an alumna of an organisation called Teach for America, which seeks out top graduates and hires them to teach for two years. Both her appointment and the organisation caused a storm.

A bias against the brightest happens partly because of lack of money (govern-





Asian values or good policy?

ments fear they cannot afford them), and partly because other aims get in the way. Almost every rich country has sought to reduce class size lately. Yet all other things being equal, smaller classes mean more teachers for the same pot of money, producing lower salaries and lower professional status. That may explain the paradox that, after primary school, there seems little or no relationship between class size and educational achievement.

McKinsey argues that the best performing education systems nevertheless manage to attract the best. In Finland all new teachers must have a master's degree. South Korea recruits primary-school teachers from the top 5% of graduates, Singapore and Hong Kong from the top 30%.

They do this in a surprising way. You might think that schools should offer as much money as possible, seek to attract a large pool of applicants into teacher training and then pick the best. Not so, says McKinsey. If money were so important, then countries with the highest teacher salaries-Germany, Spain and Switzerland-would presumably be among the best. They aren't. In practice, the top performers pay no more than average salaries.

Nor do they try to encourage a big pool of trainees and select the most successful. Almost the opposite. Singapore screens candidates with a fine mesh before teacher training and accepts only the number for which there are places. Once in, candidates are employed by the education ministry and more or less guaranteed a job. Finland also limits the supply of teachertraining places to demand. In both countries, teaching is a high-status profession (because it is fiercely competitive) and there are generous funds for each trainee teacher (because there are few of them).

^{*}How the world's best performing schools systems come out on top. McKinsey & Co.

South Korea shows how the two systems produce different results. Its primaryschool teachers have to pass a four-year undergraduate degree from one of only a dozen universities. Getting in requires top grades; places are rationed to match vacancies. In contrast, secondary-school teachers can get a diploma from any one of 350 colleges, with laxer selection criteria. This has produced an enormous glut of newly qualified secondary-school teachers-11 for each job at last count. As a result, secondary-school teaching is the lower status job in South Korea; everyone wants to be a primary-school teacher. The lesson seems to be that teacher training needs to be hard to get into, not easy.

Teaching the teachers

Having got good people, there is a temptation to shove them into classrooms and let them get on with it. For understandable reasons, teachers rarely get much training in their own classrooms (in contrast, doctors do a lot of training in hospital wards). But successful countries can still do much to overcome the difficulty.

Singapore provides teachers with 100 hours of training a year and appoints senior teachers to oversee professional development in each school. In Japan and Finland, groups of teachers visit each others' classrooms and plan lessons together. In Finland, they get an afternoon off a week for this. In Boston, which has one of America's most improved public-school systems, schedules are arranged so that those who teach the same subject have free classes together for common planning. This helps spread good ideas around. As one educator remarked, "when a brilliant American teacher retires, almost all of the lesson plans and practices that she has developed also retire. When a Japanese teacher retires, she leaves a legacy.'

Lastly, the most successful countries are distinctive not just in whom they employ so things go right but in what they do when things go wrong, as they always do. For the past few years, almost all countries have begun to focus more attention on testing, the commonest way to check if standards are falling. McKinsey's research is neutral on the usefulness of this, pointing out that while Boston tests every student every year, Finland has largely dis-

The usual suspects

Mean score on the OECD PISA mathematics scale Selected countries, 2003

Finland	544	New Zealand	524
South Korea	542	France	511
Japan	534	Germany	503
Canada	533	Spain	485
Australia	524	United States	483
Source: OECD			

Abortion and the law

Safe, legal and falling

Restrictive laws do not reduce abortion

WHEN Catholic clergy or "pro-life" politicians argue that abortion laws should be tightened/they do so in the belief that this will reduce the number of terminations. Yet the largest global study of abortion ever undertaken casts doubt on that simple proposition. Restricting abortions, the study says, has little effect on the number of pregnancies terminated. Rather, it drives women to seek illegal, often unsafe backstreet abortions leading to an estimated 67,000 deaths a year. A further 5m women require/hospital treatment as, a result of botched/procedures.

In Africa and Asia, where abortion is generally either illegal or restricted, the abortion rate in 2003 (the latest year for which figures are available) was 29 per 1,000 women aged 15-44. This is almost identical to the rate in Europe-28where legal abortions are widely available. Latin America, which has some of the world's most restrictive abortion laws, is the region with the highest abortion rate (31), while western Europe, which has some of the most liberal laws, has the lowest (12).

The study, carried out by the Guttmacher Institute in New York in collaboration with the World Health Organisation (WHO) and published in a British medical journal, the Lancet, found that most abortions occur in developing countries-35m a year, compared with just 7m in rich countries. But this was largely a reflection of population size. A woman's likelihood of having an abortion is similar whether she lives in a rich country (26 per 1,000) or a poor or middle-income one (2b).

Lest it be thought that these sweeping

continental numbers hide as much as they reveal, the same point can be made by looking at those countries which have/changed their laws. Between 1995 and/2005, 17 nations liberalised abortion legislation, while three tightened restrictions. The number of induced abortions nevertheless declined from nearly 46m in 1995 to 42m in 2003, resulting in a fall in the worldwide abortion rate from 35 to 29. The most dramatic drop—from 90 to 44-was in former communist Eastern Europe, where abortion is generally legal, safe and cheap. This coincided with a big increase in contraceptive use in the region which still has the world's highest abortion rate, with more terminations than live births.

The risk of dying in a botched abortion is only part of a broader problem of maternal health in poor countries. Of all the inequalities of development, this is arguably the worst. According to a report published this week by Population Action International, a Washington-based lobby group, women in poor countries are 250 times/more likely to die in pregnancy or childbirth than women in rich ones. Of the 535,000 women who died in childbirth or from pregnancy-related complications in 2005, 99% were in developing countries, according to another report by a group of UN agencies, including who, also out this week. Africa accounted for more than half such deaths.

As the UN report noted, countries with the highest levels of maternal mortality have made the least progress towards/reducing it. A woman in Africa has a one in 16 chance of dying in pregnancy or childbirth, compared with one in 3,800 for a woman in the rich world.

pensed with national examinations. Similarly, schools in New Zealand and England and Wales are tested every three or four years and the results published, whereas top-of-the-class Finland has no formal review and keeps the results of informal audits confidential.

But there is a pattern in what countries do once pupils and schools start to fail. The top performers intervene early and often. Finland has more special-education teachers devoted to laggards than anyone else-as many as one teacher in seven in some schools. In any given year, a third of pupils get one-on-one remedial lessons. Singapore provides extra classes for the bottom 20% of students and teachers are expected to stay behind-often for hoursafter school to help students.

None of this is rocket science. Yet it goes against some of the unspoken assumptions of education policy. Scratch a teacher or an administrator (or a parent), and you often hear that it is impossible to get the best teachers without paying big salaries; that teachers in, say, Singapore have high status because of Confucian values; or that Asian pupils are well behaved and attentive for cultural reasons. McKinsey's conclusions seem more optimistic: getting good teachers depends on how you select and train them; teaching can become a career choice for top graduates without paying a fortune; and that, with the right policies, schools and pupils are not doomed to lag behind.