Professional Competence: 
Its Nature, Development, and Assessment 
Present Perspectives and Future Issues 
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This paper is based on 50 years of intermittently sustained research. Yet, while that research has led to a position which is as scientifically and practically re-orientating as the theory of evolution was when it was first published, and while that position has similar social and political implications, it must not – any more than the theory of evolution – be viewed as a political position. The research supporting most of what is said here is summarised in Managing Education for Effective Schooling, which is itself based on some 20 earlier research reports. 

The paper will illustrate what we have learned about the nature, development, assessment, and release of professional competence – and the problems posed by our findings – by reviewing what we have learned about teacher competence. 

Numerous government reports, and opinion surveys among parents, teachers, pupils, adults, and employers, show that it is widely agreed that the main goals of education are to nurture competencies like problem-solving ability, the ability to work with others, initiative, and the ability to understand and influence the workings of organisations and society. These views are correct: Studies of the qualities required for effective performance in a wide range of occupational roles from street-sweeper to managing director of an international companies and in a wide range of citizenship and family activities demonstrate that these are the most important qualities to be nurtured. Their importance is further underlined by reflecting on the qualities required to transform our society in such a way that our species will have a future - any future. Yet schools – teachers – do hardly anything to nurture these competencies. 

It follows that, from the point of view of achieving the very objectives that it is most widely and correctly agreed that the educational system should achieve most teachers are incompetent.

There are many reasons for this state of affairs. No one knows much about the psychological nature of qualities like those that have been mentioned, how to nurture them, or how to assess them. The latter is particularly important because what happens in the educational system is chiefly determined by what is assessed in the certification and placement process and not by the wishes of parents, teachers, educational philosophers, or ministers of education. The most important point to note is, however, that teachers are professionally incompetent because they have failed to band together to bring about the wider societal developments that are necessary if they are to behave competently within their classrooms. In this they are no different from other professionals: the more effective members of all occupational groups who have been appropriately studied tend to get together with others to find ways of influencing the wider social and political constraints on what they can do in their jobs. Now the irony and the catch. It is vitally important for teachers themselves to develop the "confidence and initiative to introduce change" that pupils said it was so important for the educational system to help them develop.
To bring about social change, it is necessary to have a wide range of different people who are strongly motivated to contribute in very different ways to the process\textsuperscript{12}. One needs someone who can study the hidden sociological systems processes which perpetuate our dysfunctional society and invent ways of intervening in them. One needs someone who can translate those ideas into practical intervention strategies. One needs someone to invent ways of monitoring the effects of those interventions in order to learn more about the nature of the process and the effectiveness of the chosen strategy. One needs publicists. One needs people who can intervene in the political system. One needs people who can get other people to work together effectively. And so on\textsuperscript{13}.

Two very important observations follow from this: First: teachers’ main task is to nurture diverse motivational dispositions (competencies) not to convey uniform, out of date, knowledge of content. It is to facilitate growth. Pupils are to learn to lead, to invent, to find ways of influencing things etc. etc. not to master (learn) technico-rational knowledge. Note the re-definition of effective teaching implied in this observation alone. Second: the teaching profession itself requires a huge range of very different people who can contribute in different ways to the evolution of an effective educational system. It needs some systems interweavers; some who work with parents; some who develop new educational processes; some who work on new assessment systems; and so on.

How is one to nurture such a diverse range of competencies? How is one to conceptualise them? How is one going to give pupils and teachers credit for such a huge range of talents and contributions? (We may note in passing that it follows from what has been said that one cannot deal with incompetence – that bête noire that has done so much to fuel the huge, international, multi-billion dollar competency-specification-and testing movement – by laying down domains of technico-rational knowledge to be mastered.)

While we would not claim that we have anything approaching the answers to the questions raised in the last paragraph, we believe we have advanced some steps along the way.

The competencies we have been discussing are to be conceptualised as motivational dispositions. We have seen that society needs a wide range of people who are strongly motivated to do very different things. The task facing us as educational and psychological researchers is, therefore, to develop an agreed list of descriptors – similar to the elements of atomic theory – to summarise and describe this variance. Moves toward such a framework are to be found in Spencer & Spencer\textsuperscript{14} and Raven\textsuperscript{15}.

But the self-motivated competence to undertake each and every one of these activities effectively seems to depend on a common set of cognitive, affective, and conative components of competence.

The cognitive components include such things as the ability to develop better ways of thinking about the activity – such as putting someone at ease. But they also include some perhaps more surprising things – because another way of summarising some of the things we have just said about teacher incompetence is that competence is overwhelmingly determined by people’s beliefs about their society and organisations, how they work, and their own role in them.

The affective components of competence include the use of feelings to initiate action which cannot be rationally explained and to monitor and learn more about the problem\textsuperscript{16}.

The conative components include such things as persistence.

These observations about the nature of competence are summarised in Grid 1. This model of competence and its assessment was embedded in McClelland’s 1958 scoring system for responses to his Test of Imagination\textsuperscript{17}, but has been lost in his more recent work\textsuperscript{18}.

It follows from what has been said that, although a common set of components of competence is required to carry out each of the self-motivated activities listed across the top of the Grid, these components of competence can only be nurtured and observed ("assessed") when people – whether children or adults – are working at tasks they are spontaneously strongly motivated to undertake.
To nurture these components of competence effectively – as studies of effective teachers, parents, and managers have shown – it is necessary to create developmental environments in which people are, among other things, able to undertake activities they care about, get feedback from seeing the effects of their actions, and are exposed to appropriate role models. By and large, this is best done in homes and workplaces. If it is to be done in educational institutions it is necessary to make use of interdisciplinary, enquiry-based, competency-oriented project work in which different pupils contribute in different ways to the achievement of a real task. Such project work is not an alternative way of teaching the 3Rs and to be evaluated using conventional achievement tests. It is a highly structured approach to achieving the main goals of education. The problem is that there are currently no tools to help teachers undertake this difficult, demanding, and frustrating task; there are no ways of giving students credit for having developed one or other of the huge range of vitally important motivational dispositions (competencies) which it would be possible and desirable for them to develop; and there are no ways of giving teachers credit for having nurtured these qualities or contributed to the evolution of an educational system in which they can be nurtured in in teacher appraisal and policy evaluation systems.

As far as the professional development of teachers is concerned, the implications are quite clear. As no less than six committees of enquiry in Scotland have shown, off-the-job teacher education and training is, by and large, a waste of time. Teachers learn to teach on the job. Outstanding teachers not only painstakingly evolve personal strategies for doing what they need to do, they undertake self-motivated programmes of personal development – among other things going to work with other outstanding teachers they have heard about.

What is needed is a re-structuring of the educational system to create developmental environments for teachers and student teachers as well as pupils. It will be necessary to evolve a new learning and management system within the educational system. This learning and management system must be one which experiments and learns without anyone within it having to know anything very much. That is, what is needed is non-hierarchical and organic, with many feedback loops and tolerance of mistakes. It is precisely the opposite of that which lies behind philosophies of “improvement” associated with such things as National Curricula and central direction. We have used such work as we have been able to find to set down the specifications for such a system. Crucially important is the development of new ways of ensuring that public servants act on information in an innovative way in the long term public interest. That is, finding a way forward depends on the evolution of new expectations of, and ways of supervising, public servants – i.e. on the evolution of new forms of bureaucracy and democracy.

I have been asked to say something about what I see as the limitations of the framework we have developed. That’s difficult when my claim is only that, by shipping away over the years, we have identified what appear to be a few patches of (somewhat disturbing) firm ground in a swamp. What I want to close by saying is that this is a field of immense educational and social significance that has been grossly and unethically neglected by most educational researchers. It is time for us, as professionals, to find ways of orchestrating a swathe of major programmes of innovative, adventurous, research and development in the arena, grounding that work in a more appropriate concept of science and framework for advancing scientific understanding.

**Notes**

1 Raven, 1994
2 eg The TVEI Review (MSC, 1984); SCANS (1991).
3 eg Raven, Hancox et al, 1975a&b; Flanagan, 1978; Goodlad, 1983
4 See eg the summaries in Spencer and Spencer, 1993; Raven, 1984/97; Schon, 1983
6 See eg Raven, 1995; Emery, 1974.
8 It is actually worse than this: By failing to attend to these wider goals, teachers not only fail to identify and nurture the talents of most of the young people in their care and thus damage the future lives and careers of those children, they also – as I have shown in Managing Education and The New Wealth of Nations – both fail to nurture the talents which
we, as a society, most urgently need in order to radically change our way of life so that we have a chance of surviving as a species and contribute directly and indirectly to the perpetuation of our non-sustainable way of life. In other words, the behaviour of most teachers runs counter to the long term public interest - ie it is unethical.

References

Emery, F. E. et al. (1974). Futures We're In. Australian National University: Centre for Continuing Education.


“6-Word” “Raven-Locator pic”

John Raven

Perceptions of Educational Objectives; Occupational and Social Competence (especially teacher competence); Competencies as motivational Dispositions; Interdisciplinary Project-Based Education.
### GRID 2
**A MODEL OF COMPETENCE**

**Examples of Potentially Valued Styles of Behaviour.**

<table>
<thead>
<tr>
<th>Achievement</th>
<th>Affiliation</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep thought which has not been done before.</td>
<td>Insuring people.</td>
<td>Ensuring that group members share their knowledge so that good decisions can be made.</td>
</tr>
<tr>
<td>Doing things more efficiently than they have been done before.</td>
<td>Enabling warm, convivial relationships with others.</td>
<td>Relating group goals and others' in pursuit of them.</td>
</tr>
<tr>
<td>Developing new or lateral scientific theories.</td>
<td>Establishing group cohesion and achievement.</td>
<td>Enabling the emergence of others to influence people to do as one wishes.</td>
</tr>
<tr>
<td>Providing support and facilitation.</td>
<td>Ensuring that group works together without conflict.</td>
<td>Setting up domino-like chains of influence to get people to do as one wishes directly.</td>
</tr>
<tr>
<td>Anticipating obstacles to achievement and taking steps to avoid them.</td>
<td>Ensuring effective group discussion and procedures.</td>
<td></td>
</tr>
<tr>
<td>Analysing the effects of one's actions to discover what they have to tell one about the nature of the situation one is dealing with.</td>
<td>Ensuring that group members share their knowledge so that good decisions can be made.</td>
<td></td>
</tr>
<tr>
<td>Making one's value conflicts explicit and trying to resolve them</td>
<td></td>
<td></td>
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### Cognitive

- **Personal**: e.g., "I know there will be difficulties, but I know from my previous experience that I can find ways round them."
- **Personal normative beliefs**: e.g., "I would have to be more devious and manipulative than I would like to do that."
- **Social normative beliefs**: e.g., "My friends would approve if I did that: 'It would not be appropriate for someone in my position to do that.'"

### Affective

- Turning one's emotions into the task: admitting and harnessing feelings of delight and frustration; using the complements of tasks one needs to complete as an incentive to get on with them rather than as an excuse to avoid them.
- Anticipating the delights of success and the misery of failure.
- Using one's feelings to initiate action, monitor its effects, and change one's behaviour.

### Conative

- Putting in extra effort to reduce the likelihood of failure.
- Persisting over a long period, alternatively striving and relaxing.

### Habit and experience

- Confidence, based on experience, that one can adventure into the unknown and overcome difficulties. (This involves knowledge that one will be able to do it plus a stockpile of relevant habits.)
- A range of appropriate routinised, but flexibly contingent behaviours, each triggered by cues which one may not be able to articulate and which may be imperceptible to others.
- Experience of the satisfactions which have come from having accomplished similar tasks in the past.

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