Depth, Complexity, and Challenge

I recently reviewed a book entitled *The Ingredients of Challenge* by Carrie Winstanley. This is something I developed and thought might be useful for our discussion.

QUESTIONS	POSSIBLE APPLICATIONS AND RESOURCES
1. What	Research
makes an	
advanced	Writing
student or	
scholar in	Experiments
your	
particular	Key Scholars and Theorists, Seminal Readings, etc.
field/course/	
subject area?	
What would	
he/she be	
able to know,	
understand,	
or be able to	
do?	
2. What	Interviews of Other Practitioners and/or Scholars
kinds of	
activities	Conference or Meeting Attendance and Reflection
might the	
student	Observations
engage in	
(with the	Applying the Taxonomy of Personal Engagement (p. 147-48
support of	Winstanley based on Morgan and Saxton, 2006)
the faculty	<u>Levels of Involvement (from most advanced at the top):</u>
member)	Evaluating: wanting and being willing to test new understanding
that will	Interpreting: wanting and needing to communicate that
enhance	understanding to others
his/her	Internalising: merging objective concepts with subjective
interest	experiences, resulting in understanding and ownership of new ideas
about,	Committing: developing a sense of responsibility towards the task
engagement	Engaging: wanting to be involved in the task
in, and	Interest: being curious about what is presented
passion for	

this subject?	
3. What does this student already know and what can he/she already do in this particular area of study? What are the areas of interest this individual student has with regard to	Pre-Assessment (paper/pencil, observational, or personal conference)
4. What does	Professional Standards
this area of study look like at the	Advanced Syllabi and Course Descriptions
next level	Creative Problem Solving
up? (i.e. for	http://members.optusnet.com.au/charles57/Creative/Brain/cps.ht
undergradua tes, what does	m http://en.wikipedia.org/wiki/Creative_problem_solving
graduate	Edward DeBono:
study in, for	http://www.foodsec.org/DL/course/shortcourseFK/en/pdf/trainer
example, linguistics,	resources/PG SixThinkingHats.pdf http://www.debonoonline.com/what-are-the-six-thinking-hats.asp
look like?)	http://www.edwdebono.com/lateral.htm
For P-12,	http://www.youtube.com/watch?v=UjSjZOjNIJg
what are the	, , , , , , , , , , , , , , , , , , ,
standards	Kaplan's Depth and Complexity:
(core or	Details, Patterns, Trends, Unanswered Questions, Rules, Ethics, Big
state) for the next several	Ideas, Language of the Disciplines, Points of View, Relationships Over Time, Interdisciplinary Connections
grade levels	http://daretodifferentiate.wikispaces.com/file/view/ELEMENTS+0
above in, for	F+D%26C+CHART.2pdf
example,	
animals and	
animal	
biology?)	

5. Given the	Bloom's Taxonomy of Cognition
same	http://www.ntlf.com/html/lib/faq/bl-ntlf.htm
assignment	
as typical	Paul and Elder's work on Critical Thinking
students,	http://www.criticalthinking.org/pages/the-national-council-for-
what	excellence-in-critical-thinking/FULLRULpages/the-national-council-
components	for-excellence-in-critical-thinking/406#universal-intellectual-
might be	standards
revised or	
what rubric	Bloom's Taxonomy of Affective Development
components	http://assessment.uconn.edu/docs/LearningTaxonomy_Affective.p
might be	df
added or	Tomlinson's work on Ascending Intellectual Demand
weighted	
differently?	Costa's Work on 16 Habits of Mind
6. How might	"A well cultivated critical thinker:
this	
assignment	raises vital questions and problems, formulating them clearly
develop	and precisely;
advanced	gathers and assesses relevant information, using abstract ideas
critical	to interpret it effectively comes to well-reasoned
thinking	conclusions and solutions, testing them against relevant
skills?	criteria and standards;
	thinks openmindedly within alternative systems of thought,
	recognizing and assessing, as need be, their
	assumptions, implications, and practical consequences;
	and
	communicates effectively with others in figuring out solutions to
	complex problems.
	·
	Critical thinking can be seen as having two components: 1) a set
	of information and belief generating and processing skills, and 2)
	the habit, based on intellectual commitment, of using those skills
	to guide behavior. It is thus to be contrasted with: 1) the mere
	acquisition and retention of information alone, because it involves
	a particular way in which information is sought and treated; 2) the mere possession of a set of skills, because it involves the
	continual use of them; and 3) the mere use of those skills ("as an
	exercise") without acceptance of their results."
	http://www.criticalthinking.org/pages/defining-critical-
	thinking/766
7. How might	From the 21st Century Skills Framework:
this	Communication and Collaboration
assignment	Communication and Conaboration
assignment	

develop the	Communicate Clearly
essential	, and the second
communicati	Articulate thoughts and ideas effectively using
on,	oral, written and nonverbal communication skills in a
collaboration	variety of forms and contexts
, and	Listen effectively to decipher meaning, including knowledge, values, attitudes and intentions.
presentation	knowledge, values, attitudes and intentionsUse communication for a range of purposes (e.g.
skills that are	to inform, instruct, motivate and persuade)
valued by	Utilize multiple media and technologies, and know
professionals	how to judge their effectiveness a priori as well as
in this	assess their impact
field/subject	Communicate effectively in diverse environments
/area of	(including multi-lingual)
study?	Collaborate with Others
How might	Demonstrate ability to work effectively and
similarly	respectfully with diverse teams
advanced	Exercise flexibility and willingness to be helpful in
students work	making necessary compromises to accomplish a common goal
_	Assume shared responsibility for collaborative
together on a project,	work, and value the individual contributions made by each
assignment,	team member
or activity?	
8. In what	Analogic thinking
ways might	
the student	Creative products
and I engage	1
in activities	
that offer a	
novel	
approach?	
9. How might	Interviews (Skype or Live)
we use this	
opportunity	Field Experiences and Internships
to extend this	
individual	Volunteer Opportunities
student's	
learning into the broader	
community	
("real world	
application")	
?	
10. In what	Additional conferences and meetings between faculty and student/s
ways might	
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this	Blogging or online discussion
experience	
enhance the	Co-teaching or co-presenting
mentoring	
relationship	
between the	
student and	
the faculty	
member?	

Because the concept of a "Contract Course" involves negotiation between two parties (teacher and student) it is important to get student input on the contract. It might be too easy for a teacher or professor to design something that is SO difficult or time-consuming that it dooms a student to failure. It is also too easy to just have one boilerplate contract completed by all students in a differentiated experience or Honors Contract Course, regardless of interest or prior knowledge.