

國立彰化師範大學 99 學年度碩士班招生考試試題

系所：科學教育研究所

組別：乙、丙、丁組

科目：科學教育

☆☆請在答案紙上作答☆☆

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一、請翻譯並解釋下列名詞：(30%)

1. Formative Assessment
2. Teacher's Belief
3. Alternative Conception
4. Integrated Curriculum
5. Nature of Science

二、何謂科學素養 (scientific literacy) (5%)? 何謂科學探究 (scientific inquiry) (5%)? 試論述如何藉由探究教學提升學生的科學素養(請從國中課程設計或教學活動設計論述之) (10%)。

三、請翻譯以下文句 (不需逐字翻譯，大意即可，15%)

The Kansas Board of Education (美國堪薩斯州教育委員會) voted on Wednesday to delete almost any mention of evolution from the state's science curriculum, in one of the most far-reaching efforts by creationists in recent years to challenge the teaching of evolution in schools. While the move does not prevent the teaching of evolution, it will not be included in the state assessment tests that evaluate students' performance in various grades, which may discourage schools from spending time on the subject. (文章修改自 New York Times 1999/8/12 報導)

四、承上題，如果上述事件發生在台灣，身為科學教師的你是否同意這個決定？為什麼？(10%)

五、什麼是建構主義？建構式教學對老師而言有哪些挑戰？(25%)