Postprint

This is the accepted version of a paper presented at *American Educational Research Association (AERA) Annual Meeting, Philadelphia, PA.*

Citation for the original published paper:


N.B. When citing this work, cite the original published paper.

Permanent link to this version:
http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-240417
Can the Ambition with Individualize Pedagogy Limit the Children in Pre-school?

Gullberg, Annica, Andersson, Kristina, Hussénius, Anita, Danielsson, Anna, and Scantlebury, Kathryn

Introduction

Sweden is one of the most equal countries in the world according to Global gender gap index 2012 and gender equality issues has been a constant element in national policy documents since the 1970s (Edström 2009). Swedish law promotes gender equality ‘from above’, in what has been described as state feminism (Weiner & Berge 2001), for example, it requires that the school curriculum and practices explicitly address gender stereotypes. Gender equality regarding education is for example manifested in the Swedish national Curriculum for the Preschool (Ministry of Education, 1998 revised 2010) which states that “The preschool should counteract traditional gender patterns and gender roles. Girls and boys in the preschool should have the same opportunities to develop and explore their abilities and interests without having limitations imposed by stereotyped gender roles”. Despite this only one of the 17 programs in upper-secondary school has a nonsignificant gender bias in its student enrollment. Technical programs are almost exclusively chosen by boys, while girls chose nursing and child caring (Statistiska centralbyrån, 2012). Thus, students’ academic interests are highly gendered.

Considering the gender bias an important issue for teacher education is to address gender perspectives. One explanation to the gender bias is that children are raised with different expectations depending upon their gender, and that subjects are viewed with gendered characteristics. Johansson (2011) argues that our basic assumptions about a person, often unconsciously, will affect our attitude towards the person. Our treatment of a child is, thus, affected by our assumptions about the child’s personality, based on our previous experiences and perceptions, but also societal norms regarding e.g. class, ethnicity, age and gender. Because these assumptions often are unconscious teachers still reconstruct them at the same time as they may claim lip-service to the wording in pre-school curriculum. Teachers’ beliefs about a subject are and a child’s ‘ability’ to develop skills in the subject area has been shown to affect whether the child's learning is stimulated or inhibited (Andersson 2010). Research has also found that teachers' beliefs and expectations on students influence their performance at a topic specific level for example in science (Andersson & Gullberg, 2012; Huang & Fraser, 2009). Although teachers claim that they have the same expectations on girls’ and boys’ achievement in science, their teaching practice indicates different expectations (Kahle, Anderson & Damnjanovic, 1991). Moreover, teachers also hold assumptions about the subjects they teach. The symbolic value attributed to different science subjects give rise to different status thus contributing to a hierarchical order and gender is an integral part of this power hierarchy. The more a subject is associated with rationality, logic, objectivity, 'pure thinking' and mathematics, the higher its status and the more it is perceived as masculine. Previous studies have shown that teachers with negative experiences of science and technology avoid teaching these topics in preschool (Appleton, 2005). Girls’ performance in mathematics decline when they are taught by female teachers with low mathematics self-confidence, while the boys’ performances were not affected (Beilock et al. 2010). Teacher's conscious or unconscious beliefs influence their pedagogical knowledge. Although the teachers' views on science subjects and pupils’ ability to develop such knowledge are clearly gender related, the gender aspect is very rarely taken into account in teaching content (Hussenius et al. 2013).
In the light of that gender equality is far from settled according to the bias in the pupils’ choice of career and the actual labor market, and not is addressed at subject level, it is important to raise the pedagogical knowledge at in connection to topic and not just at a general equality question. In a research and intervention project we investigated how an increased awareness of gender issues in science and in science teaching among pre-school student teachers influenced their identities as teachers, and their teaching of science. This paper will present different interpretations represented among the pre-school student teachers, concerning situations where they considered gender to be important.

**Design and procedure**

We followed a cohort of 120 students from two universities in Sweden through their first year of science courses. As an integral part of these science courses our intervention introduced critical perspectives on gender and science as related to the culture of science and a feminist critique of the sciences using Hirdman’s (1990) and Harding’s (1986) theories of gender order in society as theoretical frameworks. The empirical material collected consists of preservice teachers’ written tasks, audio recorded group discussions and interviews. One of the assignments were an essay assignment in which preservice teachers described and reflected upon episodes in their pre-school placements where they judged gender to be important and impacted the children’s science and technology learning. The situations involved interactions between children–children, children–adult, adult–adult and/or children–material. The analysis of 45 students’ written assignments forms the basis for this paper. The analysis was carried through in several steps using NVivo to organize the developing different themes and identification of critical incidents (Braun & Clark, 2006).

**Findings and analysis**

From the analysis of the essays two main themes regarding the view of children were identified: (1) children have a stable core identity and should be supported to ‘be who they are’, or (2) children are a “jack-of-all-trades” with potential interests in a variety of subject matter topics and that these interests could be supported by teachers. Within the first theme it is concluded that teachers should support children’s “gendered” identities without interference. Several of the preservice teachers that participate in our study were strongly influenced by this child perspective and it is shown in the observation task. One student writes:

> The preschool teachers speak in the same way to girls and boys. They think the children’s personalities and how they act guide their play, not their sexes. Once one preschool teacher said *Gender is to let the children be the ones they are without interference from us, the grown-ups. We should not force boys to play with dolls and girls to play with cars. However, what we can do is to help and support the children to dare to be who they are* (the student italicizing) regardless what they like to do.

When preservice teachers refer to the importance of *letting children be as they are*, it becomes a rhetoric to justify avoid shaping and guiding children’s activities. The reasoning presupposes that e.g. girls play with specific toys depending on an intrinsic own wish, free from external influences, demands and expectations. Some students use the curriculum for preschool to confirm the importance to scaffold the children’s individual traits:

> “The preschool should strive to ensure that each child develop their identity and feel secure in themselves” (Lpfö 1998 revised 2010, p 9). The statement in the curriculum that children shall develop their own identity could be said to assume an essentialistic view of children; that there exists a genuine quintessence/core in each child and which it is up to the preschool teacher to catch sight of. This stance may lead to typification of boys/girls and marginalization of children that not fit in to the norms. There is a risk that this very
individualized view will reestablish and confirm gender stereotypes and not provide children the opportunity to explore new areas of interest.

When children are conceptualized as “jack-of-all-trades” it is considered that teachers have an important role in facilitating and presenting new topics for the children. In other words, it becomes the teacher’s responsibility to encourage children to broaden their interests. Some preservice teachers claim that it is particularly important to challenge children to engage in activities they not are used to because of traditional gender stereotypes:

This made me think about how important it is to stimulate and support children to engage in a variety of activities, especially those they aren’t used to. I was struck by this and had a lot of thoughts about how we often in preschool predispose material and place to the stereotypical view of girls and boys. (Student 2)

Preservice teachers in the “jack-of-all-trades”-theme showed different types of gender awareness: detected gender stereotyping perceptions within their preschool placement, challenged stereotyping behavior and/or reflected on their own stereotyping behavior and thoughts. Preservice teachers, who connected the situations on the individual level, did not problematize the situations and offered no critique of the larger structural cultural issues impacting science, gender and education.

**Discussion**

Is it possible there is a paradox between feminist claims about the gender equality and the strong focus on the individual in postmodern society which also has had great impact educational policy? In the Swedish curriculum for pre- and compulsory school the formulations has from the 1970s stressed the importance of raising the pupil to a democratic servant for the society including at gender perspective but recently clearly been influenced by neo-liberalism (Edström, 2009). Children are described as possessor of an own identity which the preschool teacher has to try to identify and then develop. Of importance for this development is the children perspective formulated by the UN convention on the rights of the child, 1989. In the 1990s the childhood sociology had a great impact in Sweden, where the child is seen as a competent agent on her/his own conditions (Eilard 2010). Although this perspective clearly serves to empower the children, an exaggerated narrow individualistic view can hinder the children to engage in topics viewed as nontraditional according to their sex. In order to fulfill the objectives in the Swedish curriculum and counteract traditional gender patterns, the preschool teacher has to raise eyes from the individual level and be observant on structural circumstances. Thereby, it becomes an important teacher competence to be able to move the attention in and out from these different levels, to see and make use of general patterns for understanding course of events in practice. We argue that for gender/feminist knowledge to be incorporated, the student must have acquired the ability to change focus, to switch between an individual and structural perspective, and thus higher education need to provide such training.

**References**


