

PLAGIAT MERUPAKAN TINDAKAN TIDAK TERPUJI

ABSTRAK

Sulistyaningtyas, Magdalena, 2009. *Perkembangan Kemampuan Vokasional dan Kemampuan Matematika Siswa pada Pembelajaran Matematika yang Mengintegrasikan Penumbuhan Kecakapan Vokasional Siswa SMP*. Skripsi. Program Studi Pendidikan Matematika, Fakultas Keguruan Dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta.

Penelitian ini bertujuan untuk mendeskripsikan perkembangan kemampuan vokasional dan kemampuan matematika siswa dalam pembelajaran matematika yang bertujuan mengembangkan kecakapan vokasional dengan materi garis dan sudut.

Penelitian ini merupakan jenis penelitian deskriptif kualitatif. Data yang dikumpulkan bersifat kualitatif, yang berkaitan dengan perkembangan kemampuan vokasional dan kemampuan matematika siswa dalam pembelajaran matematika yang bertujuan mengembangkan kecakapan vokasional. Subjek penelitian ini adalah empat siswa kelas VII SMP Pangudi Luhur Giriwoyo, terdiri dari dua subjek putra dan dua subjek putri. Pengumpulan data berlangsung pada tanggal 15 – 21 Agustus 2008, berlangsung selama lima kali pertemuan. Pada pertemuan pertama dan kedua, dua subjek putra membuat produk kerajinan genteng di sentra produksi genteng dan dua subjek putri membuat produk kerajinan caping di sentra produksi caping. Pada pertemuan ketiga dan keempat dilakukan pembelajaran di kelas bersama dengan guru dan keempat subjek. Pada pertemuan kelima diadakan evaluasi yang mencakup keseluruhan materi garis dan sudut yang telah dipelajari. Pengumpulan data penelitian diperoleh dengan cara merekam kegiatan pembelajaran dengan alat bantu handycam. Analisis data dilakukan dengan prosedur : (i) reduksi data yang meliputi transkripsi data rekaman video dan penentuan topik-topik data, (ii) kategorisasi data, dan (iii) penarikan kesimpulan.

Hasil penelitian berupa : perkembangan kemampuan vokasional dan perkembangan kemampuan matematika subjek. Perkembangan kemampuan vokasional yang dialami dua subjek putra dalam membuat produk kerajinan genteng meliputi tahap-tahap perkembangan kemampuan (i) mencetak lempengan tanah, (ii) mencetak genteng, dan (iii) melaksanakan proses pembakaran genteng. Perkembangan kemampuan vokasional yang dialami dua subjek putri dalam membuat produk kerajinan caping meliputi tahap-tahap perkembangan kemampuan (i) menyiapkan bambu sebagai bahan anyaman, (ii) menganyam lapisan caping, dan (iii) menjahit bagian-bagian caping. Perkembangan kemampuan matematika yang dialami keempat subjek secara umum meliputi tahap-tahap perkembangan kemampuan mempelajari (i) garis, (ii) garis sejajar, (iii) garis berpotongan, (iv) sudut, (v) sudut bertolak belakang, (vi) sudut berpelurus, (vii) sudut dalam berseberangan, (viii) sudut luar berseberangan (ix) sudut dalam sepihak, dan (x) sudut sehadap.

PLAGIAT MERUPAKAN TINDAKAN TIDAK TERPUJI

ABSTRACT

Sulistyaningtyas, Magdalena, 2009. *The Development Of Students' Vocational Skill and Mathematics Competences in Learning Mathematics Integrating The Vocational Skill For Junior High School Students.* Thesis. Mathematics Education Program Of Teacher Education Of Sanata Dharma University.

This research was intended for describing the development of students' vocational and mathematics competences in mathematics learning that aimed at developing vocational competence in the subject matter of line and angle.

The method used in this research was qualitative-descriptive. The collected data was qualitative in nature relating to the development of students' vocational skill and mathematics competences in mathematics learning that aimed at developing vocational competence. The subjects of this research were four seventh grade students of Pangudi Luhur Giriwoyo Secondary School, consisted of two male subjects and two female subjects. The data collection performed from 15 to 21 August 2008 in five encounters. The first and second encounters the two male students creating pan tile at the pan tile production centre and other two female students were at woven bamboo hat crafting centre creating woven bamboo hat. The third and fourth encounters was learning in class with the teacher and the four subjects. At the fifth encounter, the evaluation included all the subject matter of line and angle that has been learned was performed. Data collection was conducted by video recording the learning activities using handy cam. The data analysis was conducted with procedure as followed: (i) data reduction includes data transcription of video recording and determination of data topics, (ii) data categorization, and (iii) conclusion.

Result of the research was suggesting the development of vocational skill and mathematics competences of the subjects. The development of vocational skill that was experienced by two male subjects in creating pan tile product consist of the competences development phases as followed: (i) casting the clay plate, (ii) casting the pan tile, (iii) performing the process of pan tile burning, The development of vocational skill that was experienced by two female subjects in creating woven bamboo hat consist of the following competences development phases (i) preparing the bamboo as raw material, (ii) weaving the prepared bamboo for the woven hat, and (iii) stitching the woven bamboo hat sections, the mathematics competence development experienced by these four subjects in general includes the following competences development phases in learning (i) the line, (ii) aligned line, (iii) cross-section line, (iv) the angle, (v) contrary angles, (vi) aligned angles, (vii) inner opposed angles, (viii) outer opposed angles, (ix) inner parallel angles, and (x) parallel angles.