ABSTRAK

Istiqomah Nurrobiatun Nufus: "Pengaruh Model *Problem Based Learning* Menggunakan *Liveworksheet* Terhadap Literasi Sains Peserta Didik Pada Materi Ekosistem".

Kemampuan literasi sains masih relatif rendah, terbukti dari kesulitan peserta didik dalam mengintegrasikan fenomena di lingkungan dengan konsep materi yang dipelajari dikarenakan model pembelajaran belum mengarah pada pengembangan kemampuan literasi sains. Penelitian ini bertujuan untuk menganalisis pengaruh model *problem based learning* menggunakan *liveworksheet* terhadap kemampuan literasi sains peserta didik pada materi ekosistem. Penelitian M*ixed Method* dengan desain *nonequivalent control group design*. Data diperoleh melalui pengisian lembar observasi, *pretest-posttestt* kemampuan literasi sains dan angket respon peserta didik. Sampel diperoleh melalui teknik *puposive sampling* terdiri dari masing-masing 36 orang peserta didik pada kelas eksperimen dan kontrol di salah satu SMA Negeri di Kabupaten Garut. Perolehan keterlaksanaan aktivitas guru sebesar 100% sedangkan keterlaksanaan aktivitas peserta didik sebesar 93,4% pada kategori sangat baik. Peningkatan kemampuan literasi sains kelas eksperimen berkriteria sedang dengan perolehan 0,61sedangkan kelas kontrol berkriteria sedang dengan perolehan 0,54. Hasil uji statistik *Mann-Whitney* menunjukkan terdapat perbedaan signifikan literasi sains antara kelas eksperimen dan kelas kontrol dengan sig.(2-tailed) 0,034 < 0,05. Hasil perolehan rata-rata angket respon peserta didik sebesar 70,10% pada kategori baik. Hasil penelitian mengindikasikan bahwa model *problem based learning* menggunakan *liveworksheet* berpengaruh terhadap literasi sains peserta didik pada materi ekosistem.

Kata Kunci : Literasi Sains, Liveworksheet, *Problem Based Learning* (PBL).

ABSTRACT

Istiqomah Nurrobiatun Nufus: *"The Effect of Problem Based Learning Models Using Liveworksheets on Students' Scientific Literacy in Ecosystem Materials".*

The ability of scientific literacy are still relatively low, as evidenced by the difficulties of students in integrating phenomena in the environment with the concepts of the material being studied, because the learning model has not led to the development of scientific literacy abilities. This research aims to analyze the influence of the problem based learning model using live worksheets on students' scientific literacy abilities in ecosystem material. Mixed Method research with nonequivalent control group design. Data was obtained through filling in observation sheets, pretest-posttestt scientific literacy skills and student response questionnaires. The sample obtained through a pure sampling technique consisted of 36 students each in the experimental and control classes at one of the State High Schools in Garut Regency. The achievement of teacher activities was 100%, while the implementation of student activities was 93.4% in the very good category. The increase in scientific literacy skills in the experimental class was with a moderate criterion with a gain of 0.61, while the control class had a moderate criterion with a gain of 0.54. The results of the Mann-Whitney statistical test show that there is a significant difference in scientific literacy between the experimental class and the control class with sig.(2-tailed) 0.034 < 0.05. The average result of the student response questionnaire was 70.10% in the good category. The research results indicate that the problem based learning model using live worksheets has an effect on students' scientific literacy in ecosystem material.

Keywords: *Liveworksheet, Problem Based Learning (PBL), Scientific Literacy.*