**PENGEMBANGAN ENSIKLOPEDIA *BRAINWARE OF CHEMISTRY* TOKOH KIMIA DI BUKU KELAS X SMA/MA SEBAGAI SUMBER PENGETAHUAN DAN PENDIDIKAN KARAKTER BAGI SISWA**

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**ABSTRAK**

Penelitian ini merupakan penelitian pengembangan dalam bidang pendidikan kimia. Penelitian ini bertujuan untuk mengembangkan Ensiklopedia *Brainware of Chemistry* yang memuat tokoh-tokoh kimia yang muncul di buku kimia kelas X. Selain itu, penelitian ini juga bertujuan untuk menentukan kualitas produk ensiklopedia yang dikembangkan.

 Prosedur pengembangan terdiri atas lima tahapan, yaitu tahap perencanan, pengorganisasian, pelaksanaan, validasi produk, dan analisis data. Ensiklopedia *Brainware of Chemistry* ditinjau dan mendapatkan masukan dari dosen pembimbing, *peer reviewer*, ahli materi, dan ahli media.Instrumen penilaian Ensiklopedia *Brainware of Chemistry* berupa angket yang berisi 5 komponen kelayakan dan 40 kriteria penilaian kualitas ensiklopedia. Penilaian dilakukan oleh lima guru kimia di SMA. Hasil penilaian berupa data kualitatif yang kemudian diubah menjadi data kuantitatif, yang selanjutnya ditabulasi dan dianalisis dengan pedoman kriteria penilaian ideal untuk menentukan kualitas Ensiklopedia *Brainware of Chemistry*.

 Produk Ensiklopedia *Brainware of Chemistry* memuat 14 tokoh kimia. Ensiklopedia ini menekankan sisi pendidikan karakter yang dapat diambil dari perjalanan hidup tokoh-tokoh kimia yang diulas. Komponen Ensiklopedia *Brainware of Chemistry*, meliputi: *Judul, Kata Pengantar, Daftar Isi, Materi, Daftar Pustaka,* dan *Indeks*. Berdasarkan penilaian *reviewer*, ensiklopedia yang dikembangkan mempunyai kualitas sangat baik menurut kriteria penilaian ideal.

**Kata kunci**:penelitian pengembangan, ensiklopedia kimia, tokoh kimia, pendidikan karakter

**THE DEVELOPING OF ENCYCLOPEDIA “BRAINWARE OF CHEMISTRY”OF CHEMIST FIGURE IN THE 10TH GRADE BOOK AS KNOWLEDGE SOURCE OF LEARNING AND CHARACTER**

**EDUCATION FOR STUDENTS**

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**ABSTRACT**

This was a development research in the chemistry education. This development research aimed to develop Encyclopedia“Brainware of Chemistry” that contains of chemist figures which found in the 10th grade chemistry book. In addition, this development research also aimed to determine the quality of this product.

The procedure of this development consisted of five steps: planning, organizing, implementing, product validating, and data analyzing. Encyclopedia“Brainware of Chemistry” had been reviewed and got advices from supervisor, peer reviewers, expert of subject content, and expert of media. The evaluation instrument of Encyclopedia“Brainware of Chemistry” was questionnaire that consisted of evaluation aspect and criteria of quality. It was contained 5 aspects with 40 criteria. The theoretical validity had been given by five senior high school chemistry teachers. The result was qualitative data that was changed into quantitative data, then tabulated and finally analyzed based on criteria of ideal evaluation to determine the quality ofEncyclopedia“Brainware of Chemistry”.

The Encyclopedia “Brainware of Chemistry”contained of 14 chemist figures. This encyclopedia emphasized the side of character education that would be taken from the chemist character’s journey of life. The components of Encyclopedia“Brainware of Chemistry” were *Judul*, *Kata Pengantar*, *Daftar Isi*, *Materi*, *Daftar Pustaka*, and *Indeks*. Based on theoretical validity by reviewers, the encyclopedia had very good quality according to criteria of ideal evaluation.

**Keywords**: development research, encyclopedia of chemistry, chemist figure, character education