

# Development of Interactive Multimedia Based on Lectora Inspire in Kingdom Monera Material

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## Development of Interactive Multimedia Based on Lectora Inspire in Kingdom Monera Material

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Information	ABSTRACT
<b>History:</b> Diterima Direvisi Dipublikasi	Interactive multimedia based on Lectora inspire referred to in this research was learning media of based ICT created to use the Lectora inspire computer program. This research aims to develop learning media and determine students' responses to interactive multimedia based on Lectora inspire that appropriate to be used learning media for Kingdom Monera. This research was a research and development (R&D) research with the ADDIE development model consisting of five stages of analyzing, design, develop, implement and evaluate. The research instrument used in this research was a validation sheet developed which referred to Susilana and Cepi. The student response questionnaire consisted of 3 aspects namely cognitive, affective and conative consisting of 22 items. Research subjects based on the level of the National Examination scores obtained by students of class XI in SMA Negeri 2 Pontianak, SMA Negeri 10 Pontianak and MAN 1 Pontianak. The results of interactive multimedia based on Lectora inspire validation for the eligibility to obtain a CVI (Content Validity Index) value is 1,00 are declared valid. A small-scale trial consisting of 18 students received an average rating of a good category. Whereas a large-scale trial consisting of 36 students obtained an average score in the very good category. The results obtained it was concluded that interactive multimedia based on Lectora inspire was suitable for use as a medium in schools and there needs to be implementation to see achievement.
<b>Kata kunci:</b> Kingdom monera Lectora inspire Interactive multimedia Response	

### INTRODUCTION

The curriculum of 2013 is a curriculum that applies in a form of an effort to prepare the quality of learning by the needs of 21st-century competencies to answer the needs and challenges of an increasingly sophisticated and modern era. Therefore, the implementation of learning in the curriculum of 2013 is expected to be able to implement the availability of sophisticated technological and information tools in the learning process. This is by the Regulation of the Minister of Education and Culture No. 70 of the 2013 year which states that the use of the curriculum of 2013 is used to refine the mindset into interactive learning and the motives for learning a single tool or to create multimedia learning.

Biology has specific material that is different from other sciences, namely the study of living things, the environment, and the relationship between the two. The role of science, especially biology, is very strategic for learning, especially in preparing future students who are critical, creative, competitive, able to solve problems and dare to make decisions quickly and

correctly so that they can survive productively during the swift waves of competition in the global digital era full of opportunities and challenges (Sudarisman, 2015). Learning biology is something done by students, actively, and doing something instead of finding conclusions or concepts about nature (Dotan [et al.](#), 1998). Therefore, the need for tools or learning media to facilitate teachers and students in the learning process.

Based on the results of the direct interview with biology teachers in April in three schools in Pontianak, it was found that the completeness of student learning outcomes in the kingdom monera material remained incomplete under the KKM determined by the school, namely was 75. The Research of Cimer (2012) students' difficulties in studying biology due to the large number concepts or topics in biology that are exact that require understanding and application as well as biology are the sciences that seek to express material relating to living things and the environment, so students sometimes have difficulty in mastering the subject.

Students also have difficulty in understanding the concept of kingdom monera material because the object being studied is abstract (microscopic). It is difficult to understand, the many scientific or Latin names that are hard to remember by students and the use of lecture methods with the help of PowerPoint media and student worksheets. Research Purnomo (2017) kingdom monera material including material that is difficult to understand by students. Difficulties in understanding kingdom monera material because the object being studied is microscopic and its existence is difficult to observe without using tools such as the media so need learning media that can help convey messages properly (Cimer, 2012).

The school was not possible to do practicum because of the limited tools and materials such as Petri dishes which were very limited in number. This is in line with Kholina, [et al.](#) (2013) in class X SMK N 1 Kalibagor learning biology in the kingdom monera material mostly uses the method that was always used in every other material, namely lecture method besides the practical implementation in the laboratory was rarely done because it was constrained by tools and materials.

Learning must be designed as closely as possible so that students do not feel forced or depressed and students are expected to be more active both physically as well as mentally and can attract attention and interest in learning so students can focus their attention (Heni, [et al.](#) 2017). According to Daryanto (2016), many types of ICT are utilized as one of the learning media, namely there are computer-based ones that are offline or online. One of ICT-based learning media is interactive multimedia of based Lectora inspire. Lectora inspire is a computer program from the very beginning of its manufacture functions as a compiler for multimedia components to support the e-learning process (Mas'ud, 2014). They develop interactive media that needs to be supported by several media components including text, graphics, images, video, animation, audio, and interactivity (Saratman, 2019).

The importance of Lectora inspire media to help this learning process because basically, the learning process is a communication process. The communication process must be created and realized through learning activities and exchanging messages between the teacher and students. The message or information can be in the form of knowledge, skills, abilities, ideas, experiences, and so forth which is poured and displayed or delivered to students with Lectora inspire (Zubri & Rizaleni, 2016). The excellence of Lectora inspire by using Lectora inspire, the subject matter is designed as attractive as possible, can display videos, and animated images related to the subject matter so that students pay more attention to what is conveyed by the teacher (Shalikhah, [et al.](#), 2017). The learning process will be more fun and meaningful so that the effect on increasing student learning achievement.

The use of learning technology can change the learning process in the old classrooms in general students only hear, see, mimic what is said by the teacher and the text in the book, but with technology, students can receive information not only from the teacher and textbook but also other interactive media so students can construct knowledge and understanding socially (Zuhrieh (2009). Interactive multimedia based on Lectora inspire in this research will be applied via an android smartphone. Android is one of the mobile operating systems that grow amid other operating systems that are currently developing (Matsuri, et al., 2018) The advantages of learning using mobile learning can be used independently both in school and outside school (Mayaroah & Fajaria (2017). Mobile learning creates learning that is not bound by location and time so that it is more flexible, interactive, communicative, and dynamic (Zakia, et al., 2009).

The use of interactive multimedia based on Lectora inspire is expected to be able to make students interested in learning kingdom monera material so that it can improve student learning outcomes and motivate students and interactive multimedia is appropriate to be used as a learning medium. This is supported by research conducted by Rahmawati & Isroah (2013) the use of interactive multimedia based on Lectora inspire can improve learning outcomes and motivate students to pay attention to the presentation of material presented. Based on the description above, researchers are interested in developing interactive multimedia based on Lectora inspire. So that it can be seen the feasibility of interactive multimedia based on Lectora inspire in Kingdom Monera material and student responses to interactive multimedia based on Lectora inspire on Kingdom Monera Class X material in SMA / MA.

## 2. RESEARCH METHODS

### Research Design

The research design used in this research was research & development (R&D). Research and development methods are research methods used to produce certain products and test the effectiveness of the product. The model used in the research refers to Tegeh, et al (2014) namely the ADDIE model (Analyze, Design, Development, Implement, Evaluate). ADDIE model is a simple and easy procedural model for producing a medium for short-term research (Hasyim, 2016).

### Instrument

The instrument used was a media validation sheet and a student questionnaire response sheet. The media validation sheet covers four aspects namely: a) format (Clarity of work instructions, suitability of interactive multimedia formats based on Lectora inspire, harmony of colors, writing, and images in interactive multimedia based on Lectora inspire, appropriateness of video size and video sound contained in Lectora inspire as well as text displayed in interactive multimedia based on Lectora inspire and the suitability of the layout of the writing used in Lectora inspire based interactive multimedia, b) content (Conformity of material content is adjusted to Basic Competence (KD), achievement index (IPK) and learning objectives, clarity of the concept of kingdom monera delivered on interactive multimedia based on Lectora inspire, suitability of LKPD in Lectora inspire with basic competencies, indicators and learning objectives, suitability of evaluation questions contained in Lectora inspire with kingdom monera material in the material suitability of images in interactive multimedia based on Lectora inspire based on kingdom monera material. Ease in understand the material presented in interactive multimedia based on Lectora inspire), c) language (Ease in understanding the language used, effectiveness of sentences used, use of language according to

perfect spelling) and d) illustration (ease of navigation (interactive multimedia based navigation buttons lectora inspire) (Priyono & Asto 2012).

The student response questionnaire used a Likert scale with four rating scales (criteria), namely SS (strongly agree), S (agree), TS (disagree), STS (strongly disagree) (Riduwan, 2015). The response questionnaire was validated by three validators consisting of 2 lecturers in the FKIP Untan biology education study program and 1 teacher on biology subjects. The response questionnaire was made with two statements, namely a positive statement and a negative statement and consisted of three dimensions, namely: a) cognitive (Understanding of Lectora inspire-based interactive multimedia contents, Clarity of learning instructions, Appropriate Lectora inspire appearance); b) affective (motivation, attractiveness, and curiosity); and c) conative (tendency to use Lectora inspire). The validation assessment of interactive multimedia based on Lectora inspire is 1,00 valid categories and the validation results from the student response questionnaire are feasible to use.

### Procedures

The research procedure consisted of five stages, namely: **a) Analyze**, the stages carried out in the analysis stage were as follows: (1) competency analysis was carried out an analysis of basic competencies obtained KD 3.5 Identifying the structure, way of life, bacterial reproduction and the role of bacteria in life. (2) characteristic analysis was carried out characteristic analysis conducted observations and interviews in three schools and (3) material analysis was carried out analysis of material contained in the 2013 X class SMA syllabus X 3.5 Identifying the structure, way of life, bacterial reproduction and the role of bacteria in life; **b) Design**, the stages carried out in the design as follows: (1) formulating objectives in accordance with specified basic competencies; (2) determining the order of presentation of material, illustrations, and interactive multimedia based on Lectora inspire visualizations; (3) writing the initial draft of interactive multimedia product based on Lectora inspire and making storyboards; **c) Development**, the stages carried out in the development are as follows: (1) the stage of making lectora inspire which includes, making template or background lectora inspire, installing images, installing videos, making LKPD, and making evaluation questions; (2) the stage of converting multimedia lectora inspire to the form of CD-Room publications for laptops / netbooks and zip format HTML publications, so that it can be built into the shape of an Android application with the help of Appgeyser digoogle The finishing stage (finishing), namely reviewing and testing interactive multimedia based readability lectora inspire; (3) Carry out formative evaluation, which is conducting media validation and product revisions that have been suggested at the time of validation by the validator; (4) carrying out the preparation of research instruments in the form of student response questionnaires which are then validated by the validator; **d) Implement**, the stages carried out in the implementation are as follows: (1) conducting a small-scale trial of 18 class XI students; (2) conducting large-scale trials on 36 students of class XI. (Can be seen in table 2); **e) Evaluate**, the stages carried out in the evaluation are as follows: (1) conduct a formative evaluation that is the product revision that has been suggested by the validator; (2) conducting an evaluative evaluation that is knowing the students' responses to interactive multimedia based on Lectora inspire.

### Data Analysis

The results of Lectora-based interactive multimedia validation were analyzed using Lawshe for the formula CVR (Content Validity Ratio) to see the average per-indicator, CVI (Content

Validity Index) to see the average aspect as a whole while the students' responses using a percentage formula by calculating the percentage of the total score acquisition per item.

## RESULT

The purpose of this research was to determine the feasibility and response of students to interactive multimedia based on Lectora inspire in the kingdom monera material class X SMA / MA. Interactive multimedia based on Lectora inspire Kingdom Monera material validated by 5 validators. The results of interactive multimedia validation based on Lectora inspire using Lawshe calculations can be seen in Table 1

**Table 1.** Results of Interactive Multimedia Validation Based on Lectora inspire by 5 Validators

Aspect	Indicator	Validator to-					CVR	C
		1	2	3	4	5		
Format	Clarity of work instructions.	3	4	4	4	4	1,00	Valid
	The suitability of interactive multimedia based on Lectora inspire formats	3	4	4	4	4	1,00	Valid
	Color harmony, writing, and images in interactive multimedia based on Lectora inspire.	3	4	4	3	3	1,00	Valid
	The suitability of the video size and video sound contained in the Lectora inspire as well as the writing that are displayed in Interactive Multimedia based on the Lectora inspire	3	4	3	3	3	1,00	Valid
	The suitability of the layout of the writing used in interactive multimedia based on Lectora inspire.	3	3	3	4	3	1,00	Valid
	The suitability of the contents of the material is adjusted to the Basic Competencies, Indicators and Learning Objectives	4	4	4	4	3	1,00	Valid
	The clarity of the concept of kingdom monera is delivered on interactive multimedia based on Lectora inspire	3	3	4	4	3	1,00	Valid
	The suitability of LKPD in Lectora inspire with Basic Competencies, Indicators, and Learning Objectives	3	4	4	4	4	1,00	Valid
	The suitability of the evaluation questions contained in the Lectora inspire with the kingdom monera material contained in the material	3	4	3	3	3	1,00	Valid
	Image suitability in interactive multimedia based on Lectora inspire on kingdom monera material	3	4	4	4	3	1,00	Valid
Content	Ease of understanding material presented in interactive multimedia based on Lectora inspire	3	4	4	4	3	1,00	Valid
	Ease of understanding the language used	4	4	4	4	3	1,00	Valid

Aspect	Indicator	Validator to-					CVR	C
		1	2	3	4	5		
	The effectiveness of the sentences used	3	4	3	4	3	1,00	Valid
	Use of Language in accordance with enhanced spelling	3	4	4	4	3	1,00	Valid
<b>Illustration</b>	Easy navigation (interactive multimedia based on Lectora inspire navigation button)	4	3	4	4	3	1,00	Valid
<b>CVI value of 1.00</b>		<b>Valid</b>						

Note :

CVR = *Content Validity Ratio*

CVI = *Content Validity Index*

C = Conclusion

Based on Table 1, it was found that all the criteria for interactive multimedia based on Lectora inspire were declared valid because with a CVR value of 1.00. The minimum limit for a data declared valid is 0.99 for a validator of 5 people (Lawshe, 1975). The results also showed the CVI value obtained was 1.00. This shows that interactive multimedia based on Lectora inspire is appropriate to be used as a learning media in Kingdom Monera class X.

Student responses that have been measured in this study consist of 22 statements and are composed of 3 aspects namely cognitive aspects which are composed of three indicators, namely the understanding of interactive multimedia contents based on Lectora inspire, clarity of learning instructions and the suitability of interactive multimedia displays based on Lectora inspire. Affective aspects are composed of three indicators namely motivation, attraction, and curiosity, and conative aspects which are composed of one indicator that is the tendency to use interactive multimedia based on Lectora inspire. The average student questionnaire responses to interactive multimedia based on Lectora inspire in small-scale trials and large-scale trials can be seen in Table 2 and Table 3.

**Table 2.** Results of Analysis of Student Questionnaire Responses in Small Scale Trials

Aspect	Indicator	Student Response	
		Average %	Category
<b>Cognitive</b>	Understanding content of interactive multimedia based on Lectora inspire	80.21	Good
	Clarity of study instructions	79.17	Good
	Suitability of interactive multimedia based on Lectora inspire display	82.98	Very good
<b>Average Cognitive Aspects</b>		<b>80.79</b>	<b>Good</b>
<b>Affective</b>	Motivation	81.25	Very good
	Victory	81.25	Very good
	Curiosity	79.86	Good
<b>Average Affective Aspects</b>		<b>80.79</b>	<b>Good</b>
<b>Conative</b>	A tendency to use interactive multimedia based on Lectora inspire	80.56	Good
	<b>Average Conative Aspects</b>		<b>80.56</b>
<b>Overall Average</b>		<b>80.71</b>	<b>Good</b>

**Table 3.** Results of Analysis of Student Response Questionnaire on Large Scale Trials

Aspect	Indicator	Student Response	
		Average %	Category
Cognitive	Understanding of interactive multimedia based on Lectora inspire contents	84.72	Very good
	Clarity of study instructions	83.33	Very good
	Suitability of interactive multimedia based on Lectora inspire display	84.20	Very good
	<b>Average Cognitive Aspects</b>	<b>84.08</b>	<b>Very good</b>
Affective	Motivation	81.95	Very good
	Victory	81.77	Very good
	Curiosity	85.07	Very good
	<b>Average Affective Aspects</b>	<b>82.93</b>	<b>Very good</b>
Conative	A tendency to use interactive multimedia based on Lectora inspire	84.20	Very good
	<b>Average Conative Aspects</b>	<b>82.20</b>	<b>Very good</b>
	<b>Overall Average</b>	<b>83.74</b>	<b>Very good</b>

The results of small-scale trials and large-scale trials obtained that the overall response rate was 80.71% with a good category and 83.74% with very good criteria. This shows that students gave a positive response to interactive multimedia based on Lectora inspire that was developed.

## DISCUSSION

Results of the assessment of the validator on the aspects of the format CVR value is 1.00, the content aspect with CVR value is 1.00, aspects of language with CVR value is 1.00 and the aspect illustrated with CVR value is 1.00. With an overall CVI value of 1.00 which is classified as valid. This shows that interactive multimedia based on Lectora inspire is appropriate to be used as a medium of learning in schools.

The format aspect consists of six indicators that obtain a CVR value is 1.00 with a valid category. The first indicator is the clarity of instructions for use. Based on the evaluation from the validator the instructions for using the navigation key are clear. This is in line with Kadaruddin (2016) explains that one of the characteristics of multimedia learning is to be independent, meaning that multimedia should be supplemented by specific guidelines or instructions for use so that the user (*user*) can easily run multimedia programs without the guidance of others.

The second indicator of format aspect is the compatibility of interactive multimedia formats based on Lectora inspire. Based on the assessment of the format validator in interactive multimedia based on Lectora inspire is appropriate. According to Arsyad (2017) explains that the content of learning will be easier to understand if the information presented is arranged in a sequential or orderly format.

The third indicator of format aspect is the harmony of colors, writing, and images in interactive multimedia based on Lectora inspire. Based on the assessment of the color validator, the text and the images are harmonious. According to Arsyad (2017) explains that color is an important visual element in multimedia learning, but in color, selection must give the

impression of separation, emphasis, and build an integration between elements such as displaying images and writing in the media or multimedia learning that is developed.

The fourth indicator of format aspect is the suitability of video size and video sound in interactive multimedia based on Lectora inspire as well as text that is displayed in interactive multimedia based on Lectora inspire. Based on the assessment from the validator the sound and video sizes are appropriate. According to Aryanto (2016) explaining video is a teaching material that can display images and sounds in a complete and easy to understand way.

The fifth indicator of format aspect is the suitability of the layout of the text used in interactive multimedia based on Lectora inspire. Based on the results of the assessment of the validator the layout of the writing is appropriate. Sitepu (2015) explained that the main consideration in determining the layout of the text is the ease of reading and being seen as a whole by students such as titles, subtitles, descriptions, tables, and diagrams displayed in multimedia.



Figure 1. Display Format

The content aspect is composed of 6 indicators that get a CVR value is 1.00 with a valid category. Indicator first suitability of the material content tailored to the basic competence (KD), Indicator Achieving Competence (GPA), and the learning objectives. Based on the assessment of the validator the content of the material is by BC, indicators, and learning objectives. This is in line with Kadaruddin (2016) explaining that the contents of the material contained in multimedia must be by the indicators and learning objectives that have been prepared.

The second indicator of content aspect is the clarity of the kingdom monera concept which is delivered on interactive multimedia based on Lectora inspire. Based on the assessment of the validator kingdom monera concept is clear. According to Arsyad (2017), the clarity of the concept of material in a media is very important, because the media is a learning resource whose role is in conveying messages, information and lesson content to students to form new knowledge.

The third indicator of a content specification is the suitability of LKPD in interactive multimedia based on Lectora inspire with basic competencies, indicators, and learning objectives. Based on the assessment of the LKPD validator it is by KD, GPA, and learning objectives. According to Arsyad (2017) explains that multimedia learning must be equipped with practice and repetition so that students' knowledge and competence can survive in long-term memory. Interactive multimedia based on Lectora inspire developed has a Student Worksheet (LKPD) that can be done directly by students through an Android smartphone device. The making of LKPD in this multimedia refers to the MoNE format (2008) consisting

of Basic Competence (KD), Competency Achievement Indicators (GPA), and learning objectives.

The fourth indicator of a content specification is the suitability of the evaluation questions contained in the Lectora inspire with Basic Competence (KD), Competency Achievement Indicators (GPA), and learning objectives. Based on the validator's evaluation the evaluation questions are by BC, GPA, and Learning Objectives. According to Kadaruddin (2015) explained that interactive multimedia based on Lectora inspire must be equipped with evaluation questions that are used to determine students' understanding of the material presented and are equipped with *feedback* as a response to the answers given. Multimedia based interactive Lectora inspire there are 20 questions of self-evaluation multiple-choice tailored to the Basic Competency (KD), Indicators of achievement Competence (GPA), the purpose of learning materials kingdom monera and equipped with a final score rating as a form of a feedback of choice answers selected by students. In line with this, Shalikhah, *et al.* (2017) mentions that self-evaluation that is complemented by feedback in interactive multimedia based on Lectora inspire can train independent learning and the final score (feedback) displayed can inform the achievement of knowledge directly to students. According to Riska *et al.* (2018), motivation is very important in achieving learning outcomes, so the teacher can know the ability of students to follow the learning provided by the teacher if the results are satisfying students can be motivated to be able to study harder if student learning outcomes are less satisfying students are required to try and improve learning outcomes.

The fifth indicator of a content spec is the suitability of images in interactive multimedia based on Lectora inspire on kingdom monera material. Based on the assessment in the picture validator based interactive multimedia based on Lectora inspire the kingdom monera material is in conformity with the image and contents. Display interesting content, the image must be by the contents of the material. The suitability of the images with the content of the material presented is interrelated, in line with this Arsyad (2017) also explained that the main purpose of using images is to visualize the concepts that they want to convey to students.



**Figure 2** Display Material Content

The language aspect consists of three indicators that get a CVR value of 1.00 with a valid category. The first indicator is the ease of understanding the language used, the second indicator is the effectiveness of the sentence used and the third indicator is the use of language by the improved spelling. Based on the language validator's suggestion in interactive multimedia it's easy to understand. The sentence used is effective and by PUEBL. The parts that influence the readability of the Sitepu (2015) route menu, namely the order of words and sentences, the stages of word writing, paragraph format, and choice of words affect the level of readability.



The cognitive aspect consists of three indicators namely understanding the contents of interactive multimedia based on Lectora inspire contents, clarity of study instructions, and the suitability of Lectora inspire appearance. In the cognitive aspect, an increase in students' responses from the small scale test cognitive aspects gained an average is 80.79% with a good category and to a large scale test gained an average is 84.08% with a very good category. The first indicator is the understanding of multimedia contents based on Lectora inspire based on this indicator, the average score for small scale test is 80.21% with good category, while the average value for large scale test is 84.72% with a very good category. Kustandi & Bambang (2011) explained below, learning media functions to clarify the meaning of the message conveyed, the contents of the material are arranged in meaningful sequences.

The second indicator of the cognitive aspect that is clarity of learning instructions this indicator obtained an average value for a small scale test is 79.17% with a good category. While the average value for a large scale test is 83.33% with a very good category. According to Kadanuddin (2016) explains that one of the characteristics of multimedia learning is to be independent, meaning that multimedia should be supplemented by specific guidelines or instructions for use so that the user (user) can easily run multimedia programs without the guidance of others.

The third indicator of the cognitive aspect that is the suitability of the Lectora inspire display of this indicator obtained an average value for a small scale test of 82.98% with a very good category. While the average value of the large-scale test is 84.20 with a very good category. The use of images, colors, and appropriate videos can help students in understanding the material presented. This is in line with the opinion of Sudjana & Rivai (2015) the images chosen to be displayed in multimedia must support the material and by the specific learning objectives, namely by choosing images that support the core content of learning and objectives.

The affective aspect consists of three indicators namely motivation, attractiveness, and curiosity. In the affective aspect, there was an increase in student responses from the small scale test the affective aspect gained an average is 80.79% with a good category to a large scale test that obtained an average is 82.93% with a very good category. The first indicator obtained an average for small scale tests is 81.25% with a very good category and an average for large scale tests that is 81.95% with a very good category. Mahmudah & Pustikaningsih (2019) media that is interactive will help students to learn more actively and students can be motivated to follow the learning process at school.

Indicators are both affective aspects namely the attractiveness of this indicator average gain for the small-scale test is 81.25% with a very good category and earned an average of a large-scale test is 81.77% with a very good category. Shalikhah (2016) using Lectora inspire subject matter is designed as attractive as possible, can display videos, as well as animated images related to the subject matter so that students pay more attention to what is conveyed by the teacher.

The third indicator of an affective aspect is curiosity, this indicator obtained an average for a small scale test that is 79.86% with a good category and a large scale test average that is 85.07% with a very good category. According to Nurfauziyah, *et al.* (2015) the learning process begins with efforts to find patterns that have not been stated openly by the teacher so that curiosity and challenges grow in students.

The conative aspect consists of only one indicator, namely the tendency to use Lectora inspire. In the conative aspect, an increase in student responses from the small scale test the conative aspect gained an average is 80.56 and good category to a large scale test that gained an average is 84.20% and very good category. According to Hamalik (Arsyad, 2017), the use of

instructional media in the teaching and learning process can arouse new desires and interests, arouse motivation and stimulate learning activities, and bring psychological influences on students.

## CONCLUSION

Interactive multimedia based on Lectora inspire in kingdom monera material is declared valid as a learning medium in schools with a CVI (Content Validity Index) value is 1.00. Student responses to interactive multimedia based on Lectora inspire in Kingdom *Monera* material were good category with an overall score is 80.71% at the small scale test stage is 83.74% and very good category at the large scale test stage. Further research is needed regarding the implementation of interactive multimedia based on Lectora inspire in schools aimed at seeing learning outcomes in Kingdom Monera.

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