

**EFFECTIVENESS OF CARTOON AND COMIC
BASED MULTIMEDIA PACKAGE FOR TEACHING
ENVIRONMENT TO PRIMARY
SCHOOL STUDENTS**

*A Thesis
Submitted to
The Maharaja Sayajirao University of
Baroda, Vadodara
for the Degree of*

Doctor of Philosophy
*in
Education*

GUIDE

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**CENTRE OF ADVANCED STUDIES IN EDUCATION (CASE)
DEPARTMENT OF EDUCATION
FACULTY OF EDUCATION AND PSYCHOLOGY
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
VADODARA, GUJARAT- 390 002**

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Dedicated

To

The Almighty God,

*All my teachers and family members for
their*

contribution in nurturing me.

*Whatever I am at present, is because of
their gracious*

and supportive hands on my head



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CERTIFICATE

This is to certify that the thesis entitled 'Effectiveness of Cartoon and Comic Based Multimedia Package for Teaching Environment to Primary School Students' submitted by Sonal S. Kaptan is a record of research work carried out by her for the Degree of Doctor of Philosophy under my guidance. Also, the thesis has not formed the basis for award of any other Diploma, Degree, Fellowship or other similar titles and that the thesis represents an independent endeavour on the part of Sonal S. Kaptan, under my guidance. No portion of this thesis is a reproduction from any other source, published or unpublished without acknowledgement.

It is further stated that the doctoral research was carried out fulfilling the requisite attendance criteria as per O. Ph. D. : 3 (i) of The M. S. University of Baroda, Vadodara.

February, 2014

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LIST OF ABBREVIATIONS USED

UEE	Universalization of Elementary Education
UNICEF	United Nations International Children's Emergency Fund
MHRD	Ministry of Human Resource Development
DERP	District Education Revitalization Programme
DPEP	District Primary Education Programme
SCERT	State Council of Education Research and Training
DIET	District Institute of Education
NP-NSPE	National Programme of Nutritional Support to Primary Education
EGS	Education Guarantee Scheme
AIE	Alternative Innovative Education
MDMS	Mid-Day Meal Scheme
EBB	Economically Backwards Block
SSA	Sarva Shiksha Abhiyan
MSP	Mahila Samakhya Programme
NPEGEL	National Programme for Education of Girls at Elementary Level
KGBV	Kasturba Gandhi Balika Vidyalaya
MLL	Minimum Level of Learning
GCERT	Gujarat Council of Educational Research & Training
NPE	National Policy of Education
GER	Gross Enrolment Ratio
DISE	District Information System for Education
NCERT	National Council of Educational Research & Training
RTE	Right to Education
GPI	Gender Parity Index
ICT	Information and Communication Technology
CAL	Computer-Aided Learning
IUCN	International Union for Conservation of Nature and Natural Resources
GSEB	Gujarat Secondary and Higher Secondary Education Board
NCF	National Curriculum Framework
EET	Environmental Education Test
TUA	Tarang Ullhasmai Abhyas
ELT	English Language Teaching
ETV	Educational Television
CAI	Computer-Aided Instructional material
GOI	Government of India
GOG	Government of Gujarat

LIST OF NON-ENGLISH WORDS USED AND THEIR MEANING

Word	Language used	Meaning
Mahila Samakhya	Hindi	It is the name of a national scheme for the upliftment of women and children
Sarva Shiksha Abhiyan	Hindi/Gujarati	Means the moment for the education of all- a programme lunched by the Government of India (GOI) for achieving UEE
Tarang Ulhasmai Abhyas	Gujarati	Means Joyful Learning- a scheme of the Government of Gujarat (GOG) for UEE.
Vidhyadeep Yojana	Hindi/Gujarati	Means the plan to ignite/enlighten education- an Insurance Plan freely provided by the GOG to the school going children.
Shala Praveshotsav	Gujarati	Means the festival welcoming new students to school- a scheme of GOG for achieving UEE.
Kanya Kelavani	Gujarati	Means education for girls-a scheme of GOG for increasing girls' enrollment in the school.
Vidya Laxshmi Bond	Gujarati	Means a bond considering education as a wealth- a scheme of GOG encouraging girl's education.
Bal Bhavan	Hindi/Gujarati	Means a room for the children- a scheme of the GOI for enhancing the quality of primary education and achieving UEE.
Nirogi Bal	Hindi/Gujarati	Means healthy child- a Scheme of GOG for ensuring good health of primary children.
Gunotsav	Gujarati	Means the festival to improve the quality- a scheme of GOG for Quality improvement of primary education.
Phantom	English/Hindi	It is the name of an imaginary character of a super hero used in the comic magazine named Phantom.
Chacha Chaudhari	Hindi	It is the name of an imaginary character of a super hero called as uncle Chouchari used in the comic magazine named Chacha Chaudhari