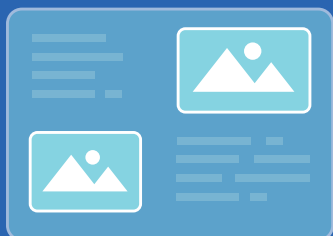


Catalogue



THE INDIA TOY FAIR - 2021

DIGITAL GAMES



THE INDIA TOY FAIR - 2021



About Us

Central Institute of Educational Technology (CIET), a constituent unit of NCERT, came into existence in 1984 with the merger of Centre for Educational Technology and Department of Teaching Aids. CIET is a premiere national institute of educational technology. Its major aim is to promote utilization of educational technologies viz. radio, TV, films, satellite communications and cyber media either separately or in combinations. The institute undertakes activities to widen educational opportunities, promote equity and improve quality of educational processes at school level. The institute develops and maintains various online education platforms and repositories that house thousands of eContent based on the National Curriculum Framework and the textbooks of NCERT. CIET-NCERT has developed digital games for curricular learning and gamified assessment of Learning Outcomes. The integration of digital games in teaching learning will not just transform the way students learn in the classroom but will also enhance their learning outcomes. Digital Games is an active area for extensive research both on the technological as well as educational fronts and their potential need to be tapped for realising the learning goals of the 21st Century.

Gamified Learning

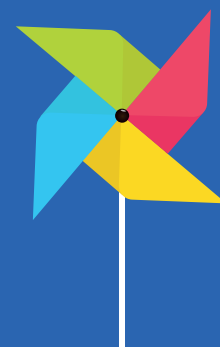
Gamified learning is an educational approach which includes game elements in the learning environment. The main purpose of gamified learning is to motivate students to learn more by enhancing their interest and making the process of learning more enjoyable.

Digital Games at Different Levels

The digital games are classified as per the new pedagogical and curricular structure envisaged by the New National Education Policy (NEP)-2020 which includes, foundational (age 3-8 years), preparatory (age 8-11 years), middle (age 11-14 years) and secondary (age 14-18 years). There are other categories of games as well such as miscellaneous and 'Heritage games'.

Available Content

- Interactive Games
- Accessible E-Comic Books
- Interactive E-Books
- Heritage Games



Contents

■ Digital Games for Foundational Level

Mathematics	
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02	Subtraction
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04	Matching of numbers to numerals-I
05	Matching of numbers to numerals-II
06	Estimation of Length
07	Counting in groups of tens and ones
08	Classification
09	Counting in groups of tens and ones
10	Arrange numbers upto 100 in ascending and descending order
11	आकृतियाँ और स्थान
12	एक से नौ तक की संख्याएँ
13	जोड़
14	घटाव
15	दस से बीस तक की संख्याएँ
16	समय
17	लम्बाई का अनुमान

18	एक और दस के समूह में गिनना
19	वर्गीकरण
20	पैटर्न
21	एक और दस के समूह में गिनना
22	मुद्रा
23	100 तक की संख्या को आरोही एवं अवरोही क्रम में लिखना
24	Shapes and space
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27	Subtraction
28	Numbers from 10 to 20
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38	1 से 9 तक की संख्याएँ
39	जोड़

40	घटाव
41	दस से बीस तक की संख्याएँ
42	समय
43	माप
44	21 से 50 तक की संख्याएँ
45	आंकड़ों का उपयोग
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51	समूह में गिनना
52	हल्का और भारी
53	त्रि आयामी (3D) वस्तुओं का द्वि आयामी (2D) निरूपण
54	धारिता का अनुमान और माप
55	संख्या
56	समय
57	जोड़
58	सीधी और मुड़ी हुई रेखाएँ
59	जोड़ और घटाव
60	लम्बाई का अनुमान
61	लम्बाई का अनुमान

62	जोड़ का क्रम विनिमेय गुणधर्म
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64	Patterns
65	Shapes
66	Reading a rate list
67	Data Handling
68	सीधी और टेढ़ी रेखाएँ

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02	Chhotu
03	Fruits and Vegetables
04	Hide and Seek
05	Shapes
06	Colours
07	Action
08	Words
09	Mohan, the potter
10	My village
11	Work

12	Our National Symbols-I
13	Our National Symbols-II
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■ Digital Games for Preparatory Level

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02	आओ नक्शा पढ़े
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04	किसकी छाप
05	नृत्य शैली
06	फूल खिले हैं गुलशन दृगुलशन
07	परछाई
08	राजीव गाँधी खेल पुरस्कार
09	Whose Print
10	खाएं आम बारह महीने
11	कहाँ से आया किसने पकाया (भोजन प्रक्रिया)

12	क्या—क्या खाते हम?
13	चलें रसोईघर
14	देश का गौरव
15	मुहावरों की पहचान
16	Identify the Occupation
17	दादी की रसोई से
18	पहुँचाएं सामान यहाँ से वहाँ
19	बूँद—बूँद से
20	सावधानी की सुरक्षा
21	जन्म प्रमाण पत्र
22	समय बदल गया
23	सिलेंडर लो, मगर ध्यान से
24	झूम खेती
25	अनीता की मधुमक्खियां —व्यवसाय
26	हाथी दृ जिग—सॉ पहेली
27	स्वाद—स्वाद में
28	पानी पानी पानी
29	किलोमीटर या मीटर
30	बढ़े चलो !

Mathematics

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04	Measurement of length
05	Shapes and Designs
06	Fun with give and take
07	Heavy and Light
08	Multiplication as repeated addition
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13	Money
14	प्रतिबिंब समरूपता
15	स्थानीय मान
16	जोड़ और घटाव
17	लंबाई का माप
18	आकृतियाँ
19	लेने देने का खेल
20	कैलेंडर

21	बार दृ बार जोड़ कर के गुना करना
22	पैटर्न
23	धारिता का अनुमान और माप
24	स्मार्ट चार्ट
25	रुपए और पैसे
26	Patterns
27	How Far?
28	Tick-Tock
29	The Way The World Looks
30	Large Numbers
31	How many millilitres? - Jugs and Mugs
32	Patterns
33	Multiplication
34	Add and Equate
35	Area estimation game
36	Smart Charts
37	पैटर्न
38	कितनी दूर
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40	दुनिया कुछ ऐसी दिखती है
41	बड़ी संख्याएँ
42	जग और मग

43	भिन्न
44	पैटर्न
45	वजन मापना
46	क्षेत्रफल का अनुमान
47	स्मार्ट चार्ट
48	Dealing with Large Numbers
49	Using protractor to measure the angles of a figure
50	Area
51	Fractions
52	Rotational Symmetry
53	Relationship between Division and Multiplication
54	Map Reading
55	Observing shapes from different perspective
56	Tenths & Hundredths
57	Spaces of Leaves
58	Smart Charts
59	Factors and Multiples
60	How Big? How Heavy
61	बड़ी संख्याएँ
62	आकृतियाँ और कोण
63	क्षेत्रफल
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69	दसवाँ और सौवां भाग
70	क्षेत्रफल और घेरा
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03	गतिविधि: 2
04	गतिविधि: 3
05	पत्ते ही पत्ते
06	गतिविधि 3: ध्वनियों को सही चित्र के साथ मिलाओ।
07	गतिविधि 3: कहानी

■ Digital Games for Middle Level

History	
S.No.	Title
01	Qawwal
02	Palm Leaf Manuscripts – Art of Writing And Preserving our Heritage
03	Zafar Mahal-The Last Monumental Structure Of The Mughals
04	Vital villages Thriving Towns
05	Traders, Kings and Pilgrims
06	Tribes, Nomads and settled communities
07	Timeline of the Coming Of The Europeans To The Revolt Of 1857
08	Our Clues to the Past
09	Status of Women in India(Pre-Independence Period)
10	Timeline of Governor Generals in British India- From 1773-1857
11	Emergence of New States after the Decline of Mughals
12	Colonial Education and National Education
13	Causes of the Revolt of 1857
14	Coins as Sources of study
15	An Activity for Chapter I - Meaning of Terms
16	Kunwar Singh and Nahar Singh : Unsung heroes of 1857
17	The Sufi culture in India
18	Rebellion After 1857

19	KATHAK- Origin and development
20	KATHAK- Origin and development
21	History (Our Pasts)
22	Developments in Science and Mathematics in Ancient India
23	Paintings as Sources of Study of The British Period
24	In the Earliest Cities
25	Sufism- Concept and four main Sufi Silsilahs
26	Indian trade and origin of words
27	Rise of Mahajanapadas
28	Bhakti Movement in Medieval India (Mind Map)
29	The Past Through The Eyes Of Chinese Travellers: The Account of Xuanzang
30	Discovery of Arikamedu – An Ancient port Town of India
31	Categories of Towns in Medieval India
32	Ahoms
33	SAVITRIBAI PHULE : A Life that continues to inspire
34	The Sufi culture in India
35	Devotional Paths to the Divine- Symbolism in Sufi Whirling During the Sama
36	The Four Varnas
37	Vital Villages and Thriving Towns (Mathura and Arikamedu around 2500 years ago)
38	The Delhi Sultans- Main Rulers of Delhi (Early 12th century to Early 16th century)- A Timeline
39	Ruling the Countryside-3 (True & False / Say Yes or No)

40	Rigveda
41	New Empires and Kingdoms
42	Rigveda
43	New Empires and kingdoms
44	Kingdoms, Kings and An Early republic
45	How, When and Where
46	Categories of Towns in Medieval India
47	Sufism- Concept and four main Sufi Silsilahs
48	In the Earliest Cities
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50	Tracing changes Through a Thousand Years
51	Planning for Development
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54	Our Clues to the Past
55	Coins as Sources of study
56	An Activity for Chapter I - Meaning of Terms

Geography

S.No.	Title
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02	Work of wind (Mushroom Rock)
03	Work of Ice (Glacial Moraines)
04	Mountain Range
05	Disaster Management – Earthquake
06	Land, Soil, Water, Natural Vegetation
07	Open Cast Mining
08	Shaft Mining
09	Research Station in Antarctica - Maitri
10	Our Country: India
11	Wind Energy
12	Research Station in Antarctica - Bharati
13	Breaking up of Rocks
14	Basin
15	Sea Arch
16	Hemispheres
17	Major Landforms
18	Disaster Management – Flood
19	Disaster Management – Landslide
20	Sea Stack
21	Tundra vegetation
22	Ocean's depth
23	Tides

24	Full moon and New moon
25	River
26	Life in Cold Deserts
27	Sericulture
28	Flora and Fauna
29	The Cold Desert of Ladakh
30	Our Country: India
31	Our Country-India
32	Volcano
33	Work of River
34	Cyclone
35	Migratory birds
36	Disaster Management – Tsunami
37	Major domains of the earth
38	Land breeze and Sea breeze

Mathematics

S.No.	Title
01	Properties of Triangles
02	Fill in the missing words
03	Understanding Polygons

04	Understanding place value
05	Exchange the digits
06	Understanding Geometrical Shapes
07	Fill in the missing words : Circles
08	Name a polygon
09	Missing words : Lines and Angles
10	Types of polygons
11	Missing words : Integers
12	Missing words : Geometry
13	Lines of symmetry
14	Fill in the missing words : Algebra
15	Rational numbers
16	Rational numbers II
17	Knowing our Numbers : Roman numerals
18	Knowing our Numbers : Estimation
19	Indian and International system of numeration
20	Knowing our Numbers : Place value
21	Comparing Numbers
22	Prime numbers
23	Common Factors
24	Visualising solid shapes
25	Fill the blanks: solid shapes

26	Solid shapes : 2D and 3D
27	2D and 3D Shapes
28	Rational Numbers
29	Rational Numbers II
30	Rational Numbers III
31	Comparing Quantities
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33	Data Handling II
34	Data Handling III
35	Data Handling IV
36	Data Handling V
37	Practical Geometry
38	Practical Geometry II
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43	Playing with Numbers
44	Knowing our numbers
45	Knowing our numbers II
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English

S.No.	Title
01	Three Questions
02	The Squirrel
03	A Gift of Chappals
04	The Rebel
05	Gopal and the Hilsa Fish
06	The Shed
07	The Ashes That Made Trees Bloom
08	Chivvy
09	Quality
10	Trees
11	Expert Detective
12	Mystery of the Talking Fan
13	Dad and the Cat and the Tree
14	The Invention of Vita-Wonk
15	Meadow Surprises
16	Fire: Friend and Foe
17	A Bicycle in Good Repair
18	Garden snake
19	The Story of Cricket

Science

S.No.	Title
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02	Diagram of a Leaf
03	Material Soluble or Insoluble in Water
04	Human Digestive System
05	Vaccine
06	Discovery of Penicillin

■ Digital Games for Secondary Level

Biology

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01	Vectors in rDNA technology
02	Agarose Gel Electrophoresis
03	Gametogenesis (Spermatogenesis)
04	Label the parts of a flower
05	Deoxyribonucleic Acid (DNA)
06	Hormonal Regulation of Male Reproductive System
07	Identification of sites on Plasmid DNA
08	Human Reproduction- Testis

09	Human Reproduction- Oogenesis
10	Human Reproduction- Mammary Gland
11	Glossary
12	Female Reproductive Systema
13	Types of Placentation in Plants
14	Issues in PCR and discovery of TAQ Polymerase
15	Microspore Mother Cell
16	Chemical Bonding and Molecular Structure (Single Choice Correct Questions)
17	Separating Transformants from Non-transformants i.e.Recombinants from non-recombinants
18	Restriction Enzymes
19	Artificial Plasmid/Cloning vector
20	Male Reproductive System- an overview
21	Isolation of DNA from green peas in the classroom/ laboratory
22	Sectional View of Seminiferous Tubules
23	Simple Stirred Tank Bioreactor
24	A diagrammatic representation of mature Embryo Sac
25	A diagrammatic view of a typical anatropous ovule
26	A diagrammatic view of Mammary gland in Humans
27	Recombinant DNA Technology
28	Parts of a leaf
29	Human Digestive System

30	A quiz on 'Endocrine glands & Hormones'
31	Quiz on 'Plant Tissues-I'
32	Quiz on 'Respiration'
33	Quiz on 'Excretory System'
34	Quiz on 'Heterotrophic Nutrition'
35	Quiz on 'Cellular Respiration'
36	Quiz on 'Heart'
37	Quiz on 'Human Digestive System'
38	Quiz on Plant Tissues-II
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40	Quiz on 'Epithelial Tissue'
41	Quiz on 'Muscular Tissue'
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43	Quiz on 'Sexual Reproduction in Plants'
44	Quiz on 'Reproduction in Single Celled Organisms'
45	Importance of Variation
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49	Biogeochemical Cycles & Ozone Layer
50	Air, Water & Soil
51	Components of cell and their functionsv

Chemistry

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02	A quiz on States of Matter
03	A quiz on 'Reactivity & Extraction of Metals'
04	Quiz on 'Physical & Chemical Changes'
05	Quiz on 'Mixture & Separation of Components'

Physics

S.No.	Title
01	States of Matter (Multiple Choice Questions)
02	Environmental Chemistry- Multiple Choice Questions
03	States of Matter
04	Digital Electronics
05	Semiconductors
06	Self-Assessment Questions on SI units
07	Pendulum Lab
08	Self-Assessment Questions on Work, Energy & Power
09	Transistor
10	Self-Assessment Questions on Sound
11	Rutherford Scattering

12	Hooke's Law
13	Faraday's Law
14	Colour Vision
15	Circuit Construction Kit
16	Capacitor Lab: Basics
17	Current Electricity
18	Ohm's Law
19	Nuclei
20	Gravity & Orbits
21	Magnetism & Matter
22	Build an Atom
23	Bending Light
24	Gravity & Orbits
25	Quiz on 'Work & Energy'
26	Quiz on 'Work & Energy-I'
27	Quiz on Work
28	Quiz on 'Sound Production & Propagation'
29	Quiz on 'Sound Production & Propagation-III'
30	Quiz on 'Sound Production & Propagation-II'
31	Quiz on 'Sound Production & Propagation-I'
32	Quiz on 'Sound-II'
33	Quiz on 'Sound-I'

English

S.No.	Title
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02	Evelyn Glennie: Deborah Cowley, Evelyn Glennie Listens to Sound without Hearing it
03	The Sound of Music Part – 2 Bismillah Khan The Shehnai of Bismillah Khan
04	The Little Girl
05	A Truly Beautiful Mind
06	The Snake and the Mirror
07	My Childhood
08	Packing
09	Reach for the Top, Part – I Santosh Yadav
10	Reach for the Top Part – II Maria Sharapova
11	The Bond of Love
12	Kathmandu
13	If I were you
14	Letter to God
15	Nelson Mandela

16	His First Flight
17	Black Aeroplane
18	From the Diary of Anne Frank
19	The Hundred Dresses –I
20	The Hundred Dresses - II
21	Baker from Goa
22	Coorg
23	Tea from Assam
24	Mijbil the Otter
25	Madam Rides the Bus
26	The Sermon at Benares
27	The Proposal

Mathematics

S.No.	Title
01	Factors That Influence Attitude Formation

History

S.No.	Title
01	Industrialisation and Collectivisation in USSR
02	The Rowlatt Satyagraha
03	Through the Eyes of Travellers: Perceptions of Society
04	Print Culture and The Modern World
05	Phan Boi Chau
06	Russia and the World War I
07	Industrial revolution
08	Inventions of the Industrial Revolution
09	US Vietnam War
10	Drainage/Flood Plain
11	Drainage/Breaded System
12	Drainage/Delta
13	Drainage/ Trellis pattern
14	Drainage/ Dendritic pattern
15	Through the Eyes of Travellers: Perceptions of Society
16	Exploring the Mahanavami Dibba
17	Through the Eyes of Travellers: Perceptions of Society
18	Town Planning in Harappa
19	Timeline of Development Mansabdari System

20	Layout of the Houses in Harappa
21	Kinship , Caste and Class
22	Understanding Seals And Their Importance In Harappa
23	Womens' Voices in the Making of the Constitution
24	Town planning in Harappa
24	Impact of Partition of India
24	Town Planning in Harappa

Geography

S.No.	Title
01	The Himalyan Mountain
02	Drainage/Perennial/Non-perennial Rivers
03	Drainage/Meanders
04	Drainage/Radial Pattern
05	Plate Tectonics
06	Drainage/Flood Plain
07	Drainage/Breaded System
08	Drainage/Delta
09	Drainage/ Trelis pattern
10	The Himalyan Mountain

11	Drainage/Meanders
12	Drainage/Perennial/Non-perennial rivers
13	Drainage /Radial Pattern
14	Plate Tectonics

Accountancy

S.No.	Title
01	Financial Accounting Introduction
02	GST
03	GAAP

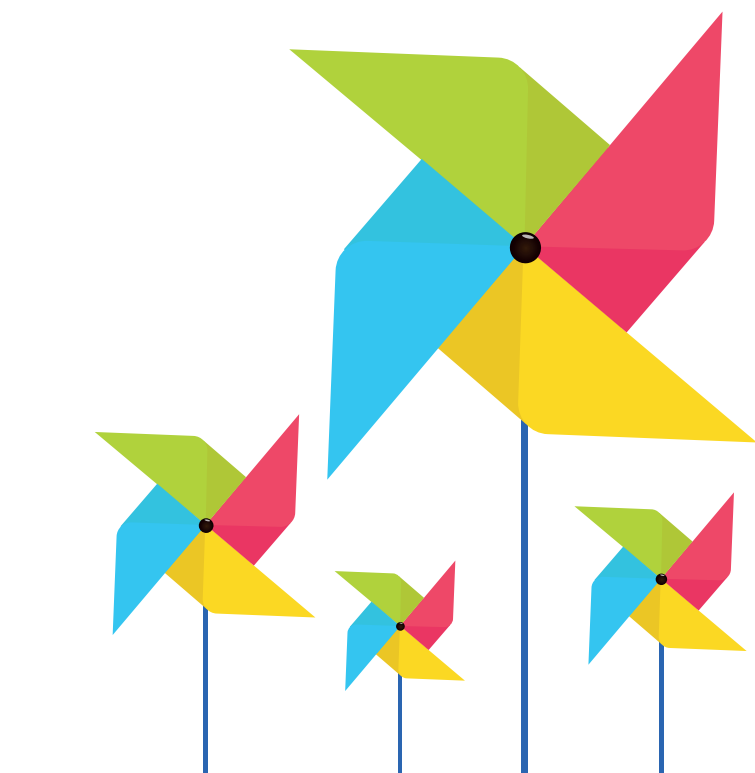
Economics

S.No.	Title
01	आय का चक्रीय प्रवाह
02	National Income
03	Theory of demand
04	Government Budget
05	Receipts and Expenditures
06	Production possibility curve and opportunity cost

07	Methods of measuring National Income
08	Presentation of data
09	पूर्ति की कीमत लोच
10	Outsourcing
11	Normal Distribution
12	National Income
13	National Income and Related Aggregates
14	Multilateral and Bilateral Trade
15	Money Supply
16	Measures of central Tendency -Mode
17	Medium of Exchange
18	Measures of central Tendency -Medium
19	Limitations of using per capita Gross Domestic Product (GDP) as a measure of welfare/Development
20	Inflation
21	Indian Economy on the Eve of Independence
22	Human Development Index
23	Graphs , curve and slope
24	Goods and services Tax
25	Global Warming
26	India's Five Year Plans
27	Demand

28	Elasticity of Supply
29	Elasticity of demand
30	Understanding different rates under monetary policy of India
31	Determinants of Supply by a Firm
32	Impact of Demonetisation in India
33	Demand for Money
34	Credit Creation by Commercial Banks
35	Indifference Curve
36	Circular Flow of income
37	Central Bank
38	Causes of Inflation
39	Lorenz Curve
40	Mean Deviation, Standard Deviation
41	Range, Quartile Deviation
42	Collection of Data
43	Spearman's Rank Correlation
44	Karl Pearson's Coefficient of Correlation
45	Scatter Diagram
46	Mode
47	Median
48	Quartiles and Percentiles
49	Arithmetic Mean

50	Presentation of Data-I
51	Presentation of Data-II
52	Organisation of Data II
53	Organisation of Data I
54	What is Economics



e-Books

Accessible e-Comic Book	
S.No.	Title
01	Priya Accessible Warrior
02	प्रिया सुगम्यता योद्धा
03	ईंधन और पर्यावरण संरक्षण
Interactive e-Comic Book	
S.No.	Title
01	Interactive E-Book सेतु पाठ्यक्रम इतिहास

Heritage Content

Virtual Tour	
S.No.	Title
01	Tour of The Great Buddha Statue
02	Tomb of Ghiyasuddin Tughlaq
Khol Khel	
S.No.	Title
01	Buddhi Yoga
02	Riwayat-e-dilli



Let's explore the world of Gamified Learning

<https://itfdigitalgames.ncert.org.in/>



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