

AN INTRODUCTION TO
The Human Body

IMPORTANT ORGANS



Interactive Exercise

Interactive Exercise

Place Value

Grade 1 Math

9
COMPARING NUM

START

START

A **DIGITAL LIBRARY** OF
INTERACTIVE LESSONS
ACTIVITIES, GAMES &
ASSESSMENTS

THE FOX AND THE GRADES
GENRE: Fable

START

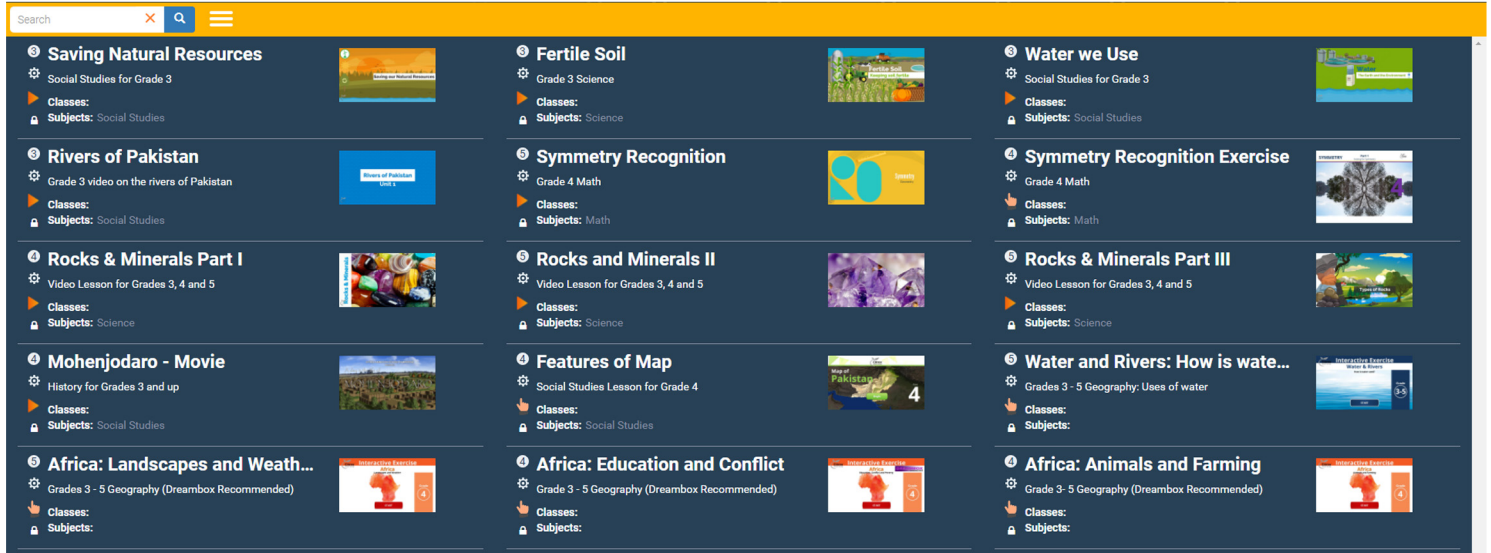
In Arabic angels are called
Mala'ika

Allah created
angels to
carry out His
commands

A 21st century tool for
INTERACTIVE LEARNING
for school and home use

What is Citrex?

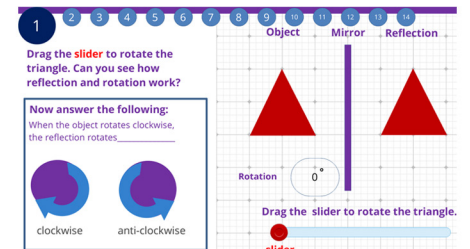
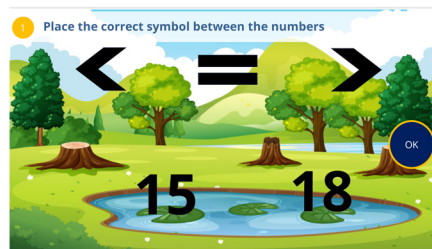
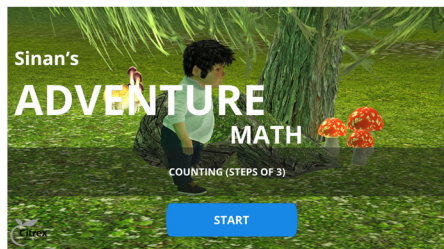
The Citrex Learning Portal is a comprehensive library of interactive digital content for schools in Pakistan. The portal contains hundreds of activities, videos and quizzes based on the Cambridge Assessment International Examination (CAIE) curriculum. The Citrex content promotes higher order learning and leads to subject mastery through active learning and constructivism.



Above: A simple user interface allows teacher and students to easily browse activities.

Mathematics

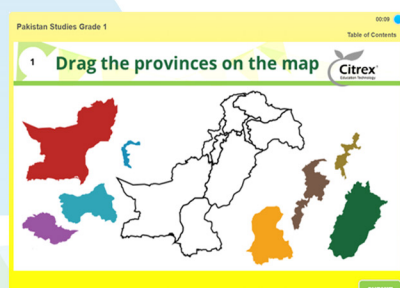
Our Math activities are integrated with storytelling involving examples from real life situations. For example, when learning about ratios and proportions, students can visually see what a change in proportion means; when learning about reflections and angles students can interact with shapes and see the relation between the angle of rotation and the resulting movement of the shape. Students are more engaged and achieve higher order of understanding through these activities.



Above: Child friendly game-like math activities designed for active learning..

Social Studies & History

Social Studies is no longer a dry subject! Through carefully crafted activities and games, Citrex has brought social studies to life. Learners are able to see what happened to the Indus Valley Civilization; why Muhammad -Bin Qasim came to Sind; what was the significance of the battle of Marathon; the impact of Julius Caesar on the modern world; how time keeping devices have changed over centuries since the invention of the obelisks in ancient Egypt and much more.



Above: History and Social Studies presented visually to enhance understanding.

Educational Films

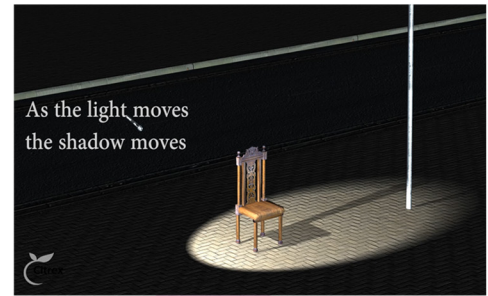
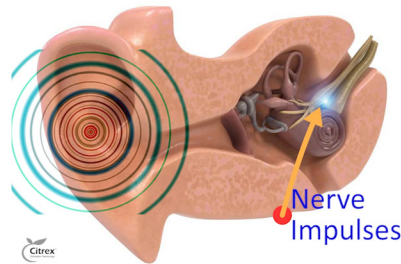
The Citrex Portal is home to our library of educational films that are made to enhance learning among children. Our film titled, Mohenjodaro is a 50 minute animated film that takes children 7000 years back in time. Children are able to see how Mohenjodaro may have looked like, and how the people of the Indus Valled Civilization lived in peace and harmony. Our film titled, Earth 2 Alpha Centurai-b is a 60 minute animated film based in the 23rd century where Pakistan and countries in South Asia have become highly developed nations. A spaceship of Pakistanis ends up time-travelling in 21st century Lahore. How do they react to see Lahore? The film provides children food for thought about our environment and our social issues. Our films beautifully combine the course curriculum with the practical issues in our society.



Above: Animated educational films based on science fiction and history

Science

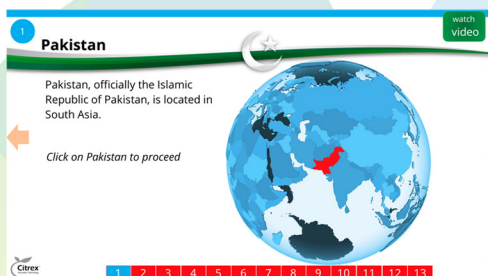
Our Science activities are easy to understand, detailed and provide visualisations to make learning easier and meaningful. Topics that can be difficult to understand, such as pollination, are described using animated pollen travelling between the Stigma and Anther. The concept of hearing is visually demonstrated by showing sound waves travelling from ear to the brain through impulses via the nerves. Students get immersed into the lessons as they understand the concepts through our detailed visualisations and auditory input. Learning is much faster with Citrex.



Above: Key concepts are demonstrated with high quality visualizations

Geography

Our carefully crafted lessons on Geography make the subject meaningful and enjoyable for students. With just a few clicks, students are able to see how provinces are divided, rivers and river basins are formed, mountains and valleys are created, volcanoes and the different types of rocks are formed, how the water cycle works... and much more. Our lessons are carefully designed to take full advantage of smart-boards in the classroom.



Above: Key concepts are demonstrated with high quality visualizations

English

The Citrex Portal contains numerous activities to improve English grammar, comprehension and listening skills of students. Our specially designed **video comprehensions** allow students to watch videos and answer questions. *To improve reading skills, students can do reading comprehensions.* Each comprehension contains a list of key words with meanings, which makes it easier for students to become familiar with important words without spending time searching for their meanings in dictionaries. The English section separately contains word lists with high frequency words and their meanings, that help students easily memorise words for improved scores in University admission tests such as the SATs, TOEFL and IELTS. In an experiment with 25 A-Level students appearing for their SAT exams, all those who used Citrex were able to memorise 300 words in just 5 days with 2 hours per day spent on learning!



Above: Interactive English comprehensions with word meanings

On-site Teacher Development Programs

At the core of our work lies our teacher development program, which aims to develop the IT skills of teachers and aligns them with the school curriculum, lesson plans and pedagogy. To date, we have delivered our training workshops to over 300 teachers from Aitchison College, Lahore Grammar, and Sadiq Public School.



Above: Sadiq Public School, Bahawalpur



Above: Lahore Grammar School, 1A1 Gulberg



Above: Lahore Grammar School, Shahjamal



Above: Lahore Grammar School, Paragon

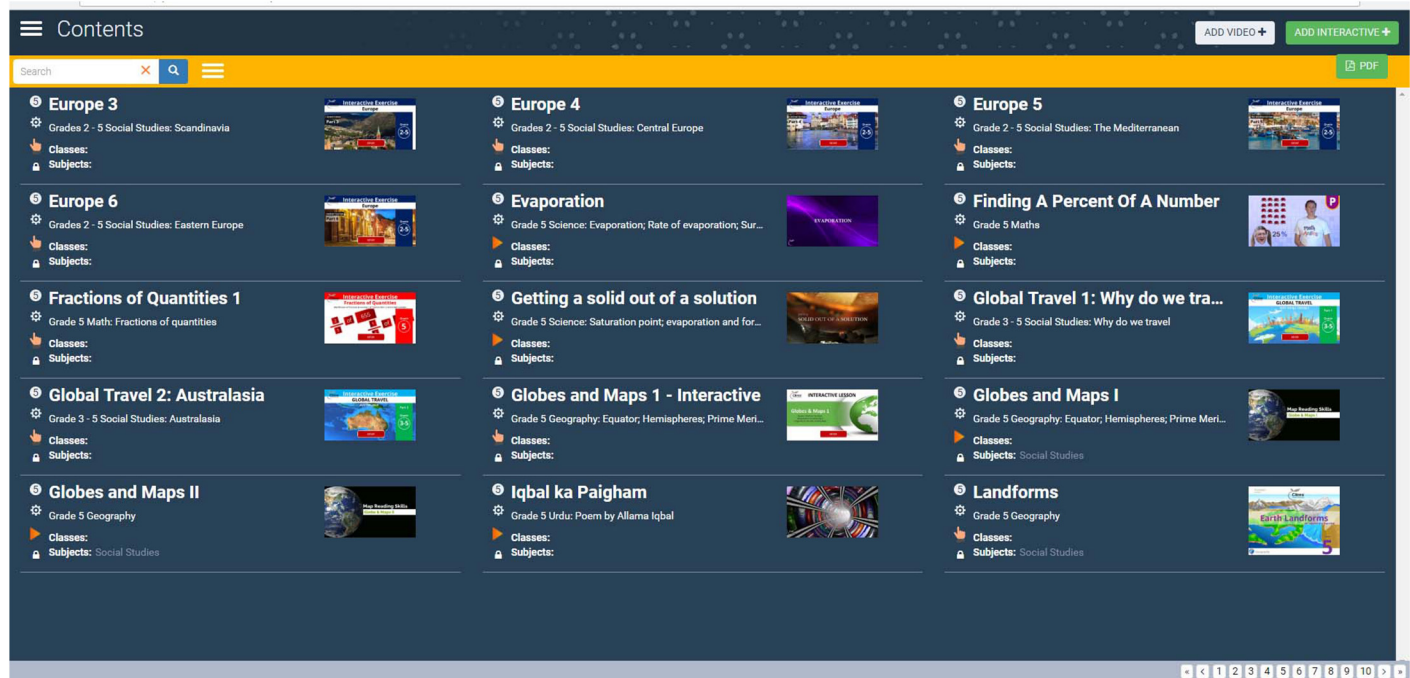
The Citrex Portal. A Learning Management System developed for schools in Pakistan

The Citrex Learning Portal is a unique learning management system designed for schools in Pakistan.

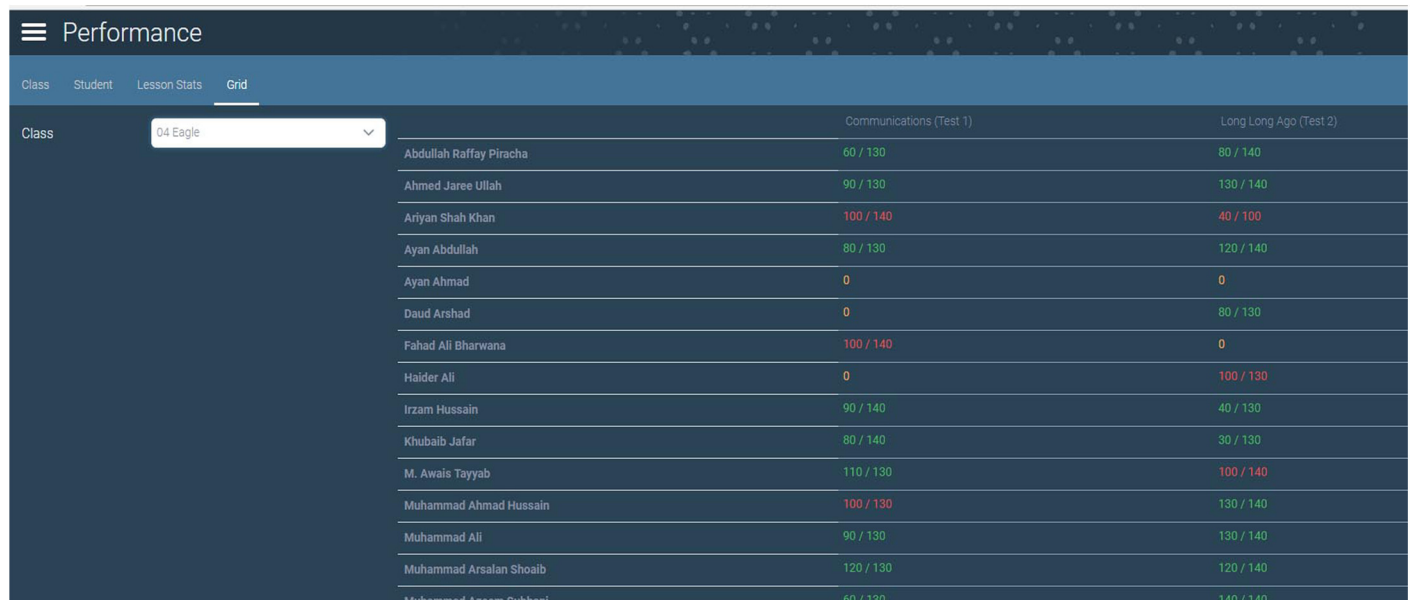
The **key features** of the portal are as follows:

- 1- Ready-made lessons, videos and activities for primary schools.
- 2- The content complies with CAIE and International curriculums.
- 3- All content is accessible from the web.
- 4- Activities carried out by students in school can later be reviewed by students at home as well.
- 5- Teachers can assign homeworks to students.
- 6- Homeworks are graded automatically, and teachers have instantaneous access to the score reports.
- 7- Testing and Assessments can be done online in accompaniment with other homework.
- 8- Customized tests can be developed and uploaded on the portal as per requirement of the school.
- 9- Teachers can have their own lessons and videos uploaded on the portal.
- 10- Uploaded lessons become universally accessible to the teacher through their teacher account.
- 11- The Portal allows teachers to collaborate and share lessons with each other.
- 12- The portal can run offline incase there is no internet.
- 13- The **Citrex Dreambox** is a smart solution that protects the content & hardware during power shortages.

Works with slow Internet!
Works in power shortages!



Above: Teachers can access the entire library of content and can choose to assign specific activities to students.



Class	Student	Lesson Stats	Grid
04 Eagle		Communications (Test 1)	Long Long Ago (Test 2)
	Abdullah Raffay Piracha	60 / 130	80 / 140
	Ahmed Jaree Ullah	90 / 130	130 / 140
	Arifan Shah Khan	100 / 140	40 / 100
	Ayan Abdullah	80 / 130	120 / 140
	Ayan Ahmad	0	0
	Daud Arshad	0	80 / 130
	Fahad Ali Bharwana	100 / 140	0
	Haider Ali	0	100 / 130
	Irzam Hussain	90 / 140	40 / 130
	Khubaib Jafar	80 / 140	30 / 130
	M. Awais Tayyab	110 / 130	100 / 140
	Muhammad Ahmad Hussain	100 / 130	130 / 140
	Muhammad Ali	90 / 130	130 / 140
	Muhammad Arsalan Shoaib	120 / 130	120 / 140
	Muhammad Azeem Subhani	60 / 130	140 / 140

Above: Once students have completed their assigned activities & tests, their grades can be easily viewed in a report. This significantly reduces the amount of effort required by teachers for checking assessments and homeworks.

MATHEMATICS

Counting with fingers
 Naming 2D shapes
 Numberline
 1 or 10 more
 1 or 10 more or less (Grid) Part 1
 1 or 10 more or less (Grid) Part 2
 Adding more than two numbers
 Addition to 10
 Comparing Numbers 1
 Comparing Numbers 2
 Comparing Numbers 3
 Comparing Numbers 4
 Count in Steps of 2
 Count in Steps of 3
 Count in Steps of 4
 Count in Steps of 5
 Even and Odd numbers
 Fill in the missing numbers 1 (1 - 1000)
 Fill in the missing numbers 2 (Counting to 1000)
 Fractions 1 (1/2)
 Fractions 2 (1/3)
 Fractions 3 (1/4)
 Fractions 4 (3/4)
 Groups of 10
 Halves
 Multiples of 2
 Number Pairs 10 and 20
 Ordinal Numbers
 Partitioning Numbers
 Place Value
 Recording Calculations
 Rounding off numbers 1 (to the nearest 10)
 Rounding off numbers 2 (to the nearest 10)
 Sorting 2D shapes
 Subtraction Part 1
 Subtraction with timeline
 Subtraction number bonds
 10,100,1000 more or less
 Addition and Subtraction 1 (single digit numbers)
 Addition and Subtraction 2 (partitioning and addition of 2 digit numbers)
 Addition and Subtraction 3 (partitioning and addition of 3 digit numbers)
 Addition and Subtraction 4 (Subtraction of 2 digit numbers)
 Addition and Subtraction 5 (Subtraction of 2 digit numbers from 3 digit numbers)
 Addition and Subtraction 6 (Subtraction of 3 digit numbers)
 Addition and Subtraction 7 (Subtraction of 3 digit numbers)
 Addition and Subtraction 8 (Addition of 3 digit numbers)
 Addition of 10, 100 and 1000
 Angles 1 (Angles and measurement)
 Angles 2 (Acute, right, obtuse and reflex angles)
 Fractions 1 (Identification, numerator, denominators)
 Fractions 2 (Equivalent fractions)
 Fractions 3 (Comparing fractions)
 Fractions 4 (Equivalent fractions and decimals)
 Fractions 5 (Simplification of fractions)
 Fractions 6 (Mixed number fractions, fractions greater than 1)
 Fractions 7 (Links between fractions and long division)
 Hundredths 1 (Identify hundredths and link between decimal and fraction)
 Hundredths 2 (Addition and rounding up)
 Hundredths 3 (Arrange in order on a numberline)
 Hundredths 4 (Sequence, order, rounding, conversion)
 Multiplication and Division by 10 and 100
 Negative Numbers (-5 to +5)
 Number Sequences
 Tenths 1 (Identify tenths in a number, fraction and visually)
 Tenths 2 (Identify tenths in different situations)
 Tenths 3 (Identify tenths in 2 and 3 digit numbers)
 Tenths 4 (Conversion of meters into centimeters)
 Multiplication Tables 12, 13, 15 and 17

Written Numbers
 Ratio and Proportions
 Symmetry Recognition
 Division with Remainders
 Fractions of Quantities 1
 Long Division
 Long Multiplication 1 (2 x 2 digit numbers)
 Long Multiplication 2 (2 x 3 digit numbers)
 Mental Division
 Mental Multiplication

SCIENCE

All about plants (introduction to plants, seeds, sunlight and water)
 Forces (Push and Pull)
 Materials 1 (Materials around our home)
 Materials 2 (Sources of materials)
 Materials 3 (Properties of materials: shiny, dull, metallic, wood etc.)
 Introduction to animals in different environments
 Living things in the environment
 Senses 1 (The 5 senses)
 Senses 2 (Sound)
 Weather conditions (weather conditions, report, forecast)
 Classification 1 (Reading block charts and identifying insects)
 Classification 2 (Insects & worms)
 Fertile Soil
 Animals and Habitats
 Habitats Exercise (Environments, habitats, adaptation)
 Vertebrates and invertebrates (Identification)
 Vertebrates
 States of Matter (Solids, liquids and gases)
 Boiling and Freezing (Temperature, degrees, thermometer, Boiling)
 Condensation
 Evaporation (Evaporation, rate, surface area)
 Solute, Solvent and Solution
 Getting a solid out of a solution (Saturation point, crystals)
 Human body 1: The Cell (Animal, plant, tissue)
 Human body 2: Organs (Ears, eyes, heart, brain, kidneys, ...)
 Human body 3: Nervous System
 Human body 4: Circulatory System
 Human body 5: Respiratory System
 Human body 6: Digestive System
 Human body 7: Excretory System
 Human body 8: Skeletal System
 Human body 9: Muscular System
 Human body 10: Drugs and Medicine
 Human body 11: Teeth
 Human body 12: Nutrition
 Life's Processes (Human lifecycle)
 Lights and shadows (Light as energy, speed, day, night, shadows)
 Living things 1: Insects and Arthropods
 Living things 2: Mammals
 Living things 3: Amphibians and reptiles
 Living things 4: Birds
 Living things 5: Fish and sealife
 Living things 6: Plants and organisms
 Living things 7: Habitats and ecosystems
 Living things 8: Food chains and webs
 Parts of a flower (Anther, filament, stigma, style, petal, sepal, ovary)
 Plants 1 (Parts of plants , photosynthesis)
 Plants 2 (Runners, seeds, bulbs, corms, tubers)
 Plants Part 1 (Parts of Plants, photosynthesis, reproduction)
 Plants Part 2 (Stamen, anther, filament, carpel, stigma, style, petal..)
 Plants Part 3 (Pollination, pollen, fertilisation, seed dispersal)
 Plants Part 4 (Seed dispersion)
 Plants Part 5 (Lifecycle of a plant)
 The water cycle
 Electricity and Magnetism (Parts 1 - 5)
 Our Universe (Parts 1 - 5)

HISTORY / GEOGRAPHY

Map of Pakistan
 Communities
 Calendars (History of calendars, lunar calendar, gregorian calendar)
 History of clocks part 1
 History of clocks part 2
 Introduction to Pakistan 1
 Introduction to Pakistan 2 (Intro. to physical features)
 Introduction to Pakistan 3 (Physical features of Pakistan)
 Jinnah
 Mughals Part 1 (Introduction to Mughals)
 Mughals Part 2
 Mughals Part 3
 Mughals Part 4
 Mughals Part 5
 Mughals Part 6
 Mughals Part 7
 Saving Natural Resources
 Solving problems of others
 Water we use
 Coming of Islam to Sindh
 Being a hero (assessment)
 Communication (assessment)
 Long Long Ago (assessment)
 Early civilizations of Pakistan (assessment)
 Muslim rule in subcontinent (assessment)
 Civic responsibilities (assessment)
 Stone age to modern age
 Ancient Egypt 1 (Nile and Egyptian land)
 Ancient Egypt 2 (Pyramids and temples)
 Ancient Egypt 3 (Art and hieroglyphics)
 Ancient Egypt 4 (Pharaohs and leaders)
 Ancient Egypt 5 (Trades and lifestyles)
 Ancient Egypt 6 (Egyptian gods and beliefs)
 Ancient Egypt 7 (Mummification, tombs and death)
 Ancient Egypt 8 (Tutankhamen's tomb)
 Egypt Today
 Europe 1 (All about Europe)
 Europe 2 (Western Europe)
 Europe 3 (Scandinavia)
 Europe 4 (Central Europe)
 Europe 5 (The Mediterranean)
 Europe 6 (Eastern Europe)
 Global travel 1 (Why do we travel)
 Global travel 2 (Australasia)
 Global travel 3 (Asia)
 Global travel 4 (North America)
 Global travel 5 (South America)
 Global travel 6 (Antarctica)
 Global travel 7 (Africa)
 Global travel 8 (Europe)
 Landscapes 1 (Mountain environments)
 Landscapes 2 (Volcanoes)
 Landscapes 3 (Earthquakes)
 Landscapes 4 (Coastal areas)
 Rainforests 1 (Tropical and Temperate)
 Rainforests 2 (Layers, plants and leaves)
 Rainforests 3 (Animals)
 Rainforests 4 (Importance)
 Rainforests 5 (Threats and destruction)
 Rainforests 6 (Conservation and protection)
 Weather and climate (Weather and climate of Pakistan)
 Weather & climate 1 (Definition, factors, measurement devices)
 Weather & climate 2 (Climate, factors)
 Weather & climate 3 (Polar, tropical & temperate zones)
 Weather & climate 4 (Mediterranean, arid & mountain zones)
 World War 2 - Part 1 (What was the second world war)
 World War 2 - Part 2 (Evacuees)

World War 2 - Part 3 (Rationing)
 World War 2 - Part 4 (The women land army)
 World War 2 - Part 5 (The home guard)
 Water and rivers 1: Rainfall
 Water and rivers 2: A river's journey
 Water and rivers 3: Landscape
 Water and rivers 4: Uses of rivers
 Water and rivers 5: The water cycle
 Water and rivers 6: Uses of water
 Rocks & Minerals 1
 Rocks & Minerals 2
 Rocks & Minerals 3
 Africa 1 (Tribes and culture)
 Africa 2 (Landscape and weather)
 Africa 3 (Living conditions)
 Africa 4 (Education and conflict)
 Africa 5 (Animals and farming)
 Africa 6 (Sports and pastimes)
 Ancient Greece 1 (Athens and Sparta)
 Ancient Greece 2 (Life)
 Ancient Greece 3 (Gods and worship)
 Ancient Greece 4 (Language and alphabet)
 Ancient Greece 5 (Soldiers and warfare)
 Ancient Greece 6 (The battle of Marathon)
 Ancient Greece 7 (The Olympics)
 Ancient Greece 8 (The legacy)
 Globes and Maps 1 (Equator, hemispheres, prime meridian...)
 Globes and Maps 2 (Time zones, reading coordinates, GPS)
 Landforms

ENGLISH

English ages 5 - 6 Part 1

- I. Alphabet (Help the baby bear reach the honey pot.)
- II. Consonants (Do the words end with the same consonant?)
- III. Vowels (Let's make new words by adding vowels.)
- IV. Letter Sounds
- V. Letter Sounds (vowel sound.)
- VI. Short Vowel Sounds (Colour each word box)
- VII. Long Vowel sounds
- VIII. Long Vowel Sounds (Complete the words.)

English ages 5 - 6 Part 2

- I. Long Vowel Sounds (Complete the words.)
- II. Digraphs (Select the picture that end with 'ng')
- III. Digraphs (Say the sound and complete the words.)
- IV. Digraphs (Find the object with 'ch' sound and select them.)
- V. Digraphs (Find the object with 'ck' sound and select them.)
- VI. Digraphs (Can you make new words with the sounds shown?)
- VII. Digraphs (Click all words beginning with Sh.)
- VIII. Digraphs (Click all words beginning with Ch.)
- IX. Digraphs (Click all words beginning with Th.)
- X. Digraphs (Click all words beginning with St.)

English ages 5 - 6 Part 3

- I. Digraphs (Click the words ending with "ng")
- II. Digraphs (Click the words ending with "th".)
- III. Digraphs (Click the words ending with "ck".)
- IV. Digraphs (Click the words ending with "Sh".)
- V. Letter Clusters
- VI. Word Family (Add more words to each word family.)
- VII. Word Endings (Add 'ing' to each word.)
- VIII. Word endings
- IX. Silent Letters (Click the words that have silent letters.)
- X. Word Breakdown

ENGLISH CONTINUED

English ages 5 - 6 Part 4

- I. Rhyming Words (Drag and match the pictures that rhyme.)
- II. Rhyming Words (Colour each rhyming pair of words using different colours.)
- III. Rhyming Words
- IV. Making Words
- V. Naming Words
- VI. Naming Words (Sort & drag the naming words as a person, place or thing.)
- VII. Doing Words (Match the 'doing' words to the pictures.)
- VIII. Describing Words (Click the correct 'describing' words for the ducks.)
- IX. 'A' or 'An' (Fill in the blanks with 'a' or 'an')

English ages 5 - 6 Part 5

- I. 'A' or 'An'
- II. 'A' or 'An' (Select the correct word to be used in the sentence.)
- III. Helping Words (fill in the blanks with 'is', 'are' or 'am'.)
- IV. Helping Words (Complete the sentences using the helping words.)
- V. Joining Words (Look at each picture and write what you see using 'and'.)
- VI. Pronouns (Pick a pronoun and complete the sentence)

English ages 5 - 6 Part 6

- I. Position Words (Where is the busy bee?)
- II. Position Words (Where is the rabbit?)
- III. Plurals (Click and name the plurals)
- IV. Opposite Words (Write opposite words.)
- V. Compound Words (Join two words to make a new word.)
- VI. Punctuation (Correct the following sentences.)

English ages 5 - 6 Part 7

- I. Sentences (Find the words in the puzzle. Type the sentence.)
- II. Sentences (Match the boxes to complete the sentences)

English grade 1 onwards

- Plurals
- Nouns and verbs
- Adjectives 1
- Adjectives 2
- Prepositions 1
- Prepositions 2
- Verbs Part 1
- Verbs Part 2
- Peter Pan 1 (Video comprehension)
- Peter Pan 2 (Video comprehension)
- Peter Pan 3 (Video comprehension)
- The Spiderwick Chronicles 1 (Video comprehension)
- The Spiderwick Chronicles 2 (Video comprehension)
- The Spiderwick Chronicles 3 (Video comprehension)
- The Elephant's Child (English comprehension)
- Fairytales
- How to write a fable
- The fox and the grapes (English comprehension)
- A healer with a heart (English comprehension)
- From trunk to tail (English comprehension)
- Poetic Techniques (Rhythm)
- Poetic Techniques (Rhyme)
- A Magical land (An introduction to research)
- Word Power 1 (SATs high frequency words)
- Word Power 2 (SATs high frequency words)
- Word Power 3 (SATs high frequency words)
- Word Power 4 (SATs high frequency words)
- Word Power 5 (SATs high frequency words)
- Word Power 6 (SATs high frequency words)
- Word Power 7 (SATs high frequency words)

ISLAMIYAT

- Allah and His creation
- Angels in Islam
- Holy books
- Prophethood
- The 5 Pillars of Islam
- Prophet Muhammad (pbuh)
- Muslim emigration to Yahtrib (Medina)
- Battle of Badr
- Battle of Uhud
- Battle of the Trench
- Treaty of Hodaybiyyah
- Muslim occupation of Mecca
- The last sermon
- The four caliphs

Comprehensive
Meaningful
& Fun!



Note: Newer activities are added regularly.
Please contact us for the most up to date list.

TESTIMONIALS



“An excellent and succinct way of finding out what really happened in history, a dramatically effective way of learning.”

PHILIP WOOD (CBE)
Visiting professor, University of Oxford
Visiting fellow, University of Cambridge



“An effective way of teaching our next generation through a medium of their choice.”

F.S. AIJAZUDDIN (OBE)



“Children will gain a fresh perspective of our history through these beautifully designed lessons.”

Dr. ARFA SAYEDA ZEHRA
Forman Christian College, Lahore



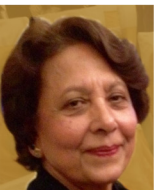
“These activities have added to the positivity in our classrooms. Children look forward to learning.”

MAISOON K. AZIZ
Lahore Grammar School



“Beautifully designed interactive lessons that integrate different topics and subjects together and create a holistic learning experience.”

SALMAN YASIN
Lahore Grammar School



“Citrex is a comprehensive, constructive and engaging programme. It not only provides updated information but is greatly enjoyed by the students.”

ANJUM A. KHAN
Lahore Grammar School



"Our teachers and students love Citrex. It is engaging, interactive and makes learning meaningful and fun!"

KHUSHBAKHT HUSSAIN
Lahore Grammar School



“Our children love Citrex and eagerly look forward to their digital homeworks. Citrex is helping our children attain their learning goals at a much faster pace. ”

SAHAR KHAN
Loretto House



www.citrex.uk
email: fazalqkhan@citrex.uk

CITREX SOLUTIONS PVT. LTD
45 EMPRESS ROAD, LAHORE
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CITREX LIMITED
208 MILL ROAD
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Digital Learning
for 21st century schools

Let's create an enlightened Pakistan

