



**ADVANCING
LEARNING**



macmillan
education

Part of the **SPRINGER NATURE** group

About Macmillan Education



Macmillan Education is a **global education company** with a presence in over 120 countries working closely with students, teachers and institutions to advancing learning.

We have been in the education space **in India for over 127 years** and have made lasting relationships with schools, educators and learners through our **impeccable learning resources**.

At the forefront of innovation we have introduced **new methodologies**, **engaging digital resources** and provide sound teaching practice and pedagogy that inspires learners to achieve more.



Altura

macmillan education

**Advancing Learning and Teaching
Using Resources and Assessments**

Aligned to the National Education Policy 2020

Endorsed by



*Integrated Blended Learning Solution
Classes 1 to 5*

Foundation for Innovation
and Technology Transfer, IIT Delhi



ALTURA has been developed in partnership with **Foundation for Innovation and Technology Transfer (FITT) IIT, Delhi.**

FITT inputs were incorporated in

- **Instructional design – blended pedagogy**
- **Developing Learning for Life**
- **21st century Skills Development**
- **Project Based Learning**

Altura by Macmillan Education, is a solid step forward in school education, it incorporates project based learning, and focusses on 'how to learn' rather than 'what to learn', which is what we do at IIT. Altura will go a long way towards igniting curiosity and innovation in young minds, who will take the world forward in the 21st century.

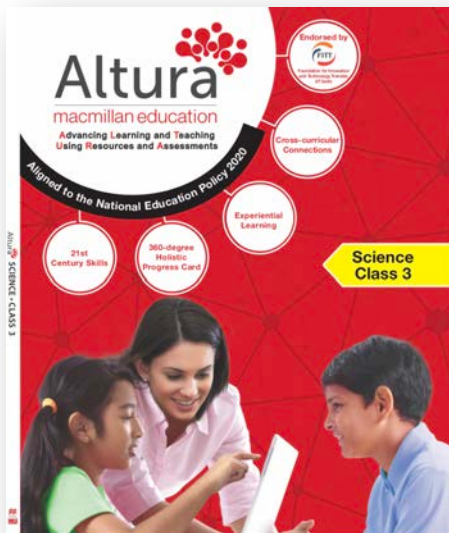
–Professor Aditya Mittal, Indian Institute of Technology, Delhi



ALTURA - Advancing Learning and Teaching Using Resources and Assessments

Altura is an integrated blended learning solution which will take schools to the next level of performance.

CONTENT ALIGNED TO
NATIONAL EDUCATION POLICY 2020



Learning Management System – easy to set up

Learning Management Solution with Apps for Student Teacher and Parent

- Ease of setting up and assigning classes & subjects
- Easy to upload student data
- Logins available for Super admin, Teachers and Students
- Login using email as username and password
- Apps for Teachers, Students and Parents

The screenshot displays the Altura Macmillan Education LMS interface. On the left, a login form is visible with the following fields and options:

- Log in to your account**
- Username:
- Forgotten username? [↻](#)
- Password:
- Forgotten password? [↻](#)
- [Log in](#)
- Need an account? [Register](#)
- Environment: Demo1 | Version: 1.0.0.11

The main interface shows a 'Subjects' section with icons for English, ALTURA Hindi A L3, Altura Maths L3, and Altura Science L3. On the right, the 'Users' management section is active, featuring a search bar and a table of users:

First Name	Last Name	Username	Role	Last Login	No. of Classes	Actions
Feroz	Bassi	bassiferoz1	Teacher	30 Sep 2020 HH-MM	4	View Delete
Uday	Chandra Munshi	chandramunshiduday1	Student	30 Sep 2020 HH-MM	1	View Delete
Aisha	Divan	divanaisha1	Teacher	30 Sep 2020 HH-MM	1	View Delete
Laveena	Golla	gollalaveena1	Student	30 Sep 2020 HH-MM	1	View Delete
Zeeshan	Iyengar	iyengarzeeshan1	Student	30 Sep 2020 HH-MM	2	View Delete
Akshay	Kara	karaakshay1	Student	30 Sep 2020 HH-MM	2	View Delete
Chitra	Nagar	nagarchitra1	Student	30 Sep 2020 HH-MM	1	View Delete
Indira	Rahim Srivastava	rahimsrivastavaindira1	Student	30 Sep 2020 HH-MM	1	View Delete
Bimla	Sethi	sethibimla1	Teacher	30 Sep 2020 HH-MM	2	View Delete
Sheetal	Vala	valasheetal1	Student	30 Sep 2020 HH-MM	2	View Delete

The interface also includes a sidebar with navigation options: Dashboard, Products, Classes, Users, Assessments, and Reports. At the bottom, there are links for Terms and Conditions, Privacy Policy, Cookie Policy, Manage Cookies, and System Requirements, along with copyright information for Springer Nature Limited 2020.

Characteristics of the Learning Management System

- Works on all Operating Systems – Windows, Linux (Ubuntu)
- Hardware :Macintosh, Chromebook, Mobile, Android iOS
- Works on browsers: Chrome, Firefox, Edge, Safari and Chromebook
- Integration with Google Classrooms, Microsoft Teams, Zoom and more
- Works in both Online and Offline (most features)

Intermittent Wi-Fi

no problem



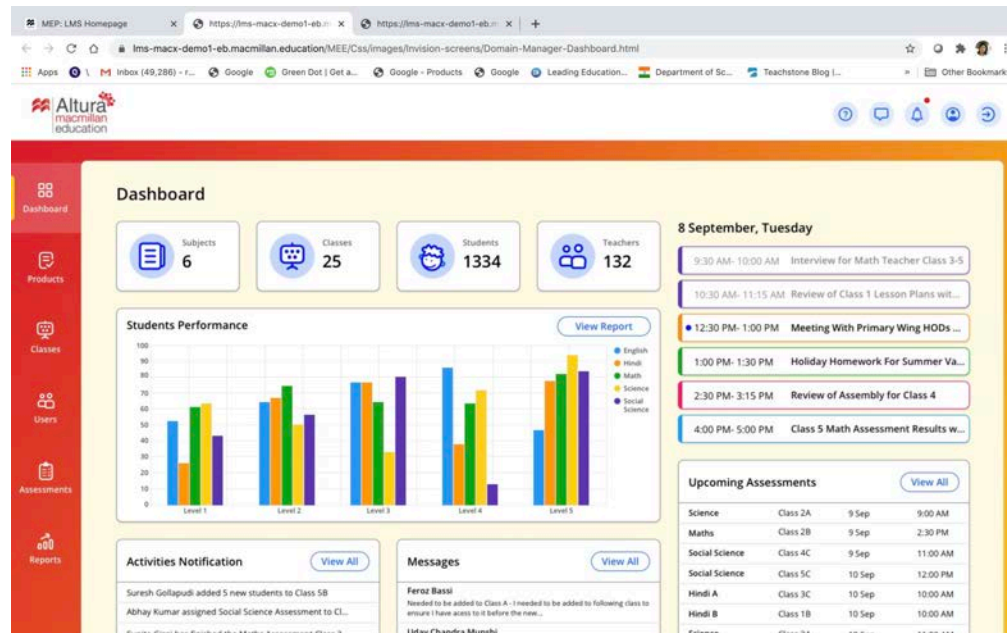
SCHOOL - SUPER ADMIN

ALTURA FEATURES AND BENEFITS

Super Admin Login

- Define roles for Admin, Teachers and Students
- Allocate Resources
- Visibility into Products, Classes, Users, Assessments and Reports

Full view of school performance



The 'Class Management' page displays a list of products for Class 1A (2020-2021). The table includes columns for Product Name, Start Date, End Date, Total Allowance, Remaining Allowance, Status, and Actions. The products are categorized into Student Bundles and Teacher Bundles for various subjects like English, EVS, Maths, and Hindi.

Product Name	Start Date	End Date	Total Allowance	Remaining Allowance	Status	Actions
English A Level 1 Student Bundle	30 Apr 2020	30 Apr 2021	500	500	Active	Remove
English B Level 1 Teacher Bundle	30 Apr 2020	30 Apr 2021	500	500	Active	Remove
EVS Level 1 Student Bundle	30 Apr 2020	30 Apr 2021	600	500	Active	Remove
EVS Level 1 Teacher Bundle	30 Apr 2020	30 Apr 2021	500	500	Active	Remove
Maths Level 1 Student Bundle	30 Apr 2020	30 Apr 2021	500	500	Active	Remove
Maths Level 1 Teacher Bundle	30 Apr 2020	30 Apr 2021	500	0	Active	Remove
Hindi A Level 1 Student Bundle	-	-	700	0	Expired	Remove
Hindi B Level 1 Teacher Bundle	-	-	400	0	Expired	Remove
Science Level 1 Student Bundle	-	-	100	5	Expired	Remove

Performance and Progress Reports to use for improvement decisions

Class Report

Class Report interface showing course progress and student performance. The interface includes filters for Quiz, All Students, All Units, and All Lessons. It displays a Class Average Score of 71% and a table of student performance.

Name	Units completed	Time	Attempts	Last Attempt
Daidabhvai Sanyal	7/10	HH:MM:SS	12	37%
Vikramaditya Jogalekar	10/10	HH:MM:SS	21	42%
Daksh Devarukhkar	7/10	HH:MM:SS	23	76%
Daas Deshmukh	8/10	HH:MM:SS	16	54%
Rishabha Padgavakar	7/10	HH:MM:SS	8	35%

Performance Reports with analytics

Individual Student Report

Individual Student Report interface showing quiz performance and a list of units completed. The interface displays a Best score average of 80% and 60/200 activities completed. It lists units and lessons with their respective completion percentages.

Unit	Lesson	Preparation	Completion
Unit 1 Arrivals	Lesson 1.1 People and places	Vocabulary preparation: Countries	25%
	Lesson 1.1 People and places	Vocabulary preparation: Nationalities	29%
	Lesson 1.1 People and places	Grammar preparation: Present simple be	29%
Unit 2 People	Lesson 2.1 Family	Vocabulary preparation: Family	31%
	Lesson 2.1 Family	Vocabulary preparation: Family	31%
	Lesson 2.1 Family	Pronunciation preparation: schwa	31%
Unit 1 Places	Lesson 1.1 People and places	Vocabulary preparation: Countries	41%
	Lesson 1.1 People and places	Vocabulary preparation: Nationalities	71%

Usage Report

English Assessment question interface showing a graph and multiple-choice options. The question asks to specify the time when the number of living bacteria is increasing at the greatest rate.

Question 1/11
 In the graph displayed below, specify the time when the number of living bacteria is increasing at the greatest rate.

Choose the correct option:

- During the first 2 hours
- Between the 4th and the 6th hour
- Between the 11th and the 15th hour
- Between the 2nd and the 4th hour
- Between the 6th and the 10th hour

TEACHER

ALTURA FEATURES AND BENEFITS

Teacher Login

Calendar for scheduling classes, tests and more

Teacher can access Subjects, e-Books, Table of Contents Last Lesson Resource Centre Classes Assessments and Reports

The screenshot displays the Altura Macmillan Education LMS interface. The main dashboard features a large orange banner with the text "Welcome, Monicaa" and "Learning Management System (LMS)". Below this, there is a "Your Classes (2)" section with two class cards: "Demo Anai" with 11 students and "MEI - Marketing (2020-21)" with 11 students. A sidebar on the right contains navigation options: Subjects, Books, Table of Contents, and Last Lesson. A calendar widget shows a weekly view for September 2020, with events for Maths and Social Science classes. A browser window in the foreground shows an e-book reader for a reading comprehension passage about a poem by Ranjita Kujala. The e-book reader includes a text area with the poem, a "Reading comprehension" section with multiple-choice and short-answer questions, and an "Appreciating the poem" section with a "Read." instruction and a definition of stanzas.

Calendar

September 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	1 Holiday for Dnms 1:30pm Social Science... 2:30pm Social Science...	2 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science... 4 more	3 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	4 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	5
		9 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science... 4 more	10 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	11 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	12 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	
		15 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	16 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	17 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science... 4 more	18 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	19
		22 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	23 9:30am Maths Class SA 11am Maths Class 7B 12:30pm Social Science... 4 more	24 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science... 4 more	25 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	26
		29 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	30 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	1 9:30am Maths Class SA 11am Maths Class 7B 2:30pm Social Science...	2 Holiday for Ganesh Ji...	3

Your Classes (2)

- Demo Anai
11 students
- MEI - Marketing (2020-21)
11 students

Reading

In this poem, the speaker expresses her love for her elder sister. Read to know how the elder sister inspires her.

My dear Big Sis, you are the greatest there is
And amazing in every way.
I greatly admire and look up to you
Each and every day.

You always show how much you care,
From your heart that is filled with love.
You are a beautiful angel,
Sent from the heavens above.

I am the luckiest sister in the world
To have grown up next to you.
We played and laughed and had fun together,
A great bond that has always stayed true.

Big Sis, you are always in my heart and thoughts,
And I am always sending you a hug and kiss.
You are my world, and I love you so much.
Always and forever...Your L'il Sis.

—Ranjita Kujala

Reading comprehension

A. Replace the underlined words with the correct words from the poem.

- The speaker greatly grazes and looks up to her elder sister.
- The elder sister never fails to show how much she loves.
- The speaker calls herself the finest sister in the world.
- The sisters have played and fought while growing up.

B. Answer these questions.

- Write three words that the speaker uses to describe her sister.
- What fond memories of childhood does the speaker have?
- Read this line and answer the questions that follow.
You are a beautiful angel.
a. Who is being referred to as an "angel"?
b. Where has the angel come from?
- Read this line and answer the questions that follow.
A great bond that has always stayed true.
a. Which "bond" is the speaker referring to?
b. How has the bond "stayed true"?

C. Think and answer.

How do you know that the elder sister means the world to the speaker?

Appreciating the poem

Read.

The poem has four sections. Each section has four lines. These sections are called **stanzas**. A stanza is a section of a poem consisting of a group of lines. Now, read the poem again. Note the stanzas.

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Teacher Resource Centre

Teacher resources - lesson plans, gradebook

- Micro Lesson Plans
- Blended Teaching Resources
- Presentations on key concepts
- Worksheets
- Question Bank

The screenshot shows the Macmillan Education Teacher Resource Centre interface. The main content area displays 'Unit 1 Lesson Plans' with three options: Lesson Plan 1 (545.46 KB), Lesson Plan 2 (540.52 KB), and Lesson Plan 3 (532.27 KB). Each option has an 'Open' button. Below the lesson plans is a table with columns 'Level' and 'Description'.

Level	Description
Knowledge	To know and remember specific facts, terms concepts, principles or theories
Comprehension	To understand, interpret, compare, contrast, explain
Application	To apply knowledge to new situations to solve problems using required knowledge or skills
Analysis	To identify the organizational structure of something; to identify parts, relationships, and organizing principles
Synthesis	To create something, to integrate ideas into a solution, to propose an action plan, to formulate a new classification scheme
Evaluation	To judge the quality of something based on its adequacy, value, logic or use

9 Adapted from California State University, Bakersfield, PACT Outcomes Assessment Handbook (1999)

Bloom's Taxonomy (Revised)



Book title: **Altura English Reader 3** Unit 1: **FAMILY**

HEIDI AND HER GRANDFATHER

Periods
[Period 1]
[1-1]

Period 3 **45 minutes**

Learning outcomes

The students will be able to:

- recollect and express the initial part of the story.
- develop listening, comprehension and reading skills.
- extrapolate the story with reference to their own behaviour
- pair up words.

Resources

textbook, digital resources, flashcard of pairing words, note book

Concept Map

<filename.png> Concept map all test

Key Words

Topic
sheet fork toasted enjoyment pot shed workshop

Warm Up

Students recap the story done in the previous class. The teacher asks probing questions to help students recollect the story read till now.

Teaching Strategies

(concept, skills and inclusive of digital assets)

Concept: **Reading aloud and listening to grasp the facts of the story.**

Worksheet 2

Heidi and Her Grandfather

1. In the paragraph below, some words are bold and underlined. Replace the bold and underlined words with the words in the box. They either have similar meaning or are a pair to the word.

ladder decide relish wardrobe spoons
bring glass

I ordered my pup Tim to **fetch** the ball I had in my **cupboard** for which he had to climb the **steps** beside the bed post. While Tim was away I was busy setting the plates and **forks** on the table. I couldn't wait to **enjoy** the dinner over a **pot** of milk and toasted bread with jam.

2. Break the following words into syllables and write how many syllables each has. One has been done for you.

carpenter car/pen/ter - 3

1. butterfly _____

2. pencil _____

3. cub _____

Ease of Assigning Homework – save time

- Homework can be assigned from question bank
- Homework submission time and date can be set
- Automatic checking of Objective Type Questions

Homework,
assignments,
quizzes

Step 2 of 4: Add Activities (0)

Preparation and Practice (3)

The following students have access to this content

Lesson 5.2 My neighbourhood

Preparation	View	3	▼
Practice	View	6	▼

Lesson 5.3 Amazing building

Preparation	View	3	▼
Practice	View	4	▼

Lesson 5.3 Amazing building

Preparation	View	3	▲
Vocabulary Preparation: Countries	View	1	▼
Vocabulary Preparation: Nationalities	View	1	▼
Grammar Preparations	View	1	▼
Practice	View	4	▼

[Back](#) [Next](#)

Homework [+ New homework](#)

Active Past Due Date

Homework	Class	Due Date
Maths Homework 1	Class 5A	DD MMM YYYY
Social Science Homework 2	Class 7B	DD MMM YYYY

[Back](#) [Next](#)

Variety of Assessments with Remediation

- Online Graded Assessment (Formative & Summative)
- 3 Question Banks with questions tagged to Bloom's Taxonomy
- Easy to generate Question papers
- Non graded quizzes for Practice
- Assessment is followed by Recommendation and Remediation
- Performance reports for students

Pen & Paper
(With Marks Entry in the system after checking)

Assessments
Recommendation
Remediation

The screenshot shows the Macmillan Education Teacher interface for MEI - Marketing (2020-21). The interface includes a sidebar with navigation options like Subjects, Books, Table of contents, Last Lesson, and Resource Centre. The main content area displays a list of assessments with columns for status, questions, assigned to, start date, due date, and progress indicators (Not Started, In Progress, Completed) with corresponding counts.

Assessment Name	Status	Questions	Assigned to	Start Date	Due Date	Not Started	In Progress	Completed
Monicaa Demo	Not Started	2	All students in class	17 Sep 2020 14:30	24 Sep 2020 14:30	10	0	0
Assessment1	InProgress	4	All students in class	09 Sep 2020 21:56	24 Sep 2020 22:35	6	0	4
Model Test	Not Started			18 Sep 2020 10:00		10	0	0

STUDENT

ALTURA FEATURES AND BENEFITS

- Can access Subjects, Homework, Challenges, Assessments and Reports

The screenshot displays the Altura Macmillan Education student login interface. It features a top navigation bar with the Altura logo and a sidebar menu on the left with icons for Subjects, Homework, Challenge, Assessments, and Reports. The main content area is divided into three sections:

- Subjects:** A grid of five subject tiles: Altura English L3 (with an ABC board icon), ALTURA Hindi A L3 (with a book icon), Altura Maths L3 (with a pencil and ruler icon), ALATURA Science L3 (with a flask icon), and Altura SST L3 (with a globe icon).
- Activity Set 1:** A challenge card with a timer for 60 seconds, a gold medal icon, and the text "Go for gold!". The rules state: "Challenge yourself to answer the questions without losing any lives and before your time runs out."
- Homework:** A table listing homework assignments with columns for the assignment name, due date, and an action link to view details.

Homework	Due Date	Action
hw tody	Tuesday, September 8	View
demo Homework 7/9/20	Wednesday, September 9	View
homework 9.9.44	Thursday, September 10	View
hm10	Thursday, September 10	View
Demo HW	Friday, September 18	View
DEMO HOME WORK	Saturday, September 19	View
Demo Homework	Thursday, September 24	View
homework 25	Friday, September 25	View
OTT authentication issue solve	Sunday, September 27	View

Learn Language Skills

Use Alexa App or Device to

- Learn more grammar, comprehension and listening skills
- Practice through quizzes.

alexia | IN PARTNERSHIP WITH macmillan education

Now make learning fun with Alexa!
Use your Alexa powered devices to learn English language skills and play quizzes from this book.

"Alexa, ask Altura to open my English reader."

"Alexa, ask Altura to open the chapter with nouns from my English reader."

"Alexa, ask Altura for 'Heidi and her grandfather' from my English reader."

"Alexa, Open Macmillan Altura."

Visit www.amazon.in/MacmillanAltura to know more.

Student Resources –
learn with Alexa

Student Resources - self learning video and games

Self-Learning Resources

Look at the pictures. What do they show? Can you remember a similar experience? Discuss and share with your classmates.



Reading
Read this story to know more about a little girl, Heidi, and her grandfather.

She had never seen him before, and was excited at the new turn her life had taken. It was the first day and Heidi was enjoying herself in her new surroundings. She went up to her grandfather whom she saw sitting quietly.

'I want to see what's in the hut, grandfather,' she said.



Adjectives

Identify the **type** of the underlined adjectives.

- The lion is a strong animal.
- He has no sense!
- I'm learning the French language.
- Which way shall we go?
- Neither answer is correct.
- Who is the first woman to win the Nobel Prize for Literature?
- That is not the pen I was using.
- I am feeling terribly bored.
- We haven't got much time.
- The apples tasted sweet and tangy at the same time.

- Grammar Activities
- Story Time with engaging animated stories
- Healthy Habits in a fun way
- Video lectures

Understanding How Germs Spread

Fun Time 1
Glittery Germs
Let me show you!

All you need is some glitter or sawdust and some cream or a drop of oil. Rub the cream or oil on your hands. Now sprinkle some glitter on your hands. You will see how the glitter of the 'pretend germs' travel from your hands to any object you touch. This is how germs spread all over but you cannot see them.


Fun Time 2
Germs in Spray
Look at a spray bottle! When you squirt it, all the coloured water droplets spread in the air. Similarly, germs travel upto six feet when you sneeze.

Fun Time 3
Germs in the Air
Throw some talcum powder in the air. Observe how long the talcum powder hangs in the air and how long it takes to settle down.

This is how germs spread when a person coughs: We inhale the same air and can get infected!

Wash Your Hands Like This

We need to wash away germs hiding on our hands with soap and water.



It takes just 20 seconds to wash your hands clean (sing "HAPPY BIRTHDAY" song twice).

OK. Some ideas are not so good ... but I always try again!



PRINT LEARNING RESOURCES

ALIGNED TO NATIONAL EDUCATION POLICY 2020

PRINT RESOURCES - Subjects and Classes

Classes	Subjects
1-2	Mathematics, English and Environmental Sciences
3-5	Mathematics, English, Social Studies and Science
	Hindi* (optional) at two levels

Printed textbooks
and workbooks
aligned to NEP
2020

English

- Main Course books 1 to 5
- Workbooks 1 to 5
- Supplementary Readers 1 to 5

EVS

- Main Course books 1 and 2
- Workbooks 1 and 2

Maths

- Main Course book 1 to 5
- Workbooks 1 to 5

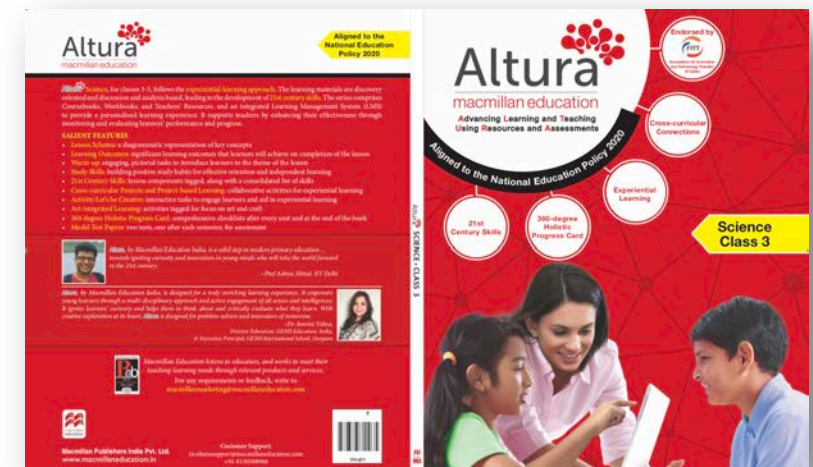
Social Studies

- Main Course books 3 to 5
- Workbooks 3 to 5

Science

- Main Course books 3 to 5
- Workbooks 3 to 5

Workbooks aligned with Main Coursebooks



EXPERIENTIAL LEARNING

- Makes learning joyful and engaging through real-life experiences
- Helps students to acquire and demonstrate deep understanding
- Develop 21st century skills – collaboration, communication, creativity

Activity



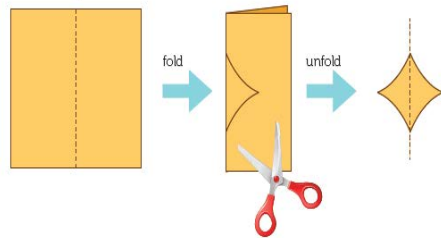
Creativity and Innovation

Work in pairs to create symmetric figures.

1. Fold a piece of origami paper into half.

Next, draw a figure on one side of the origami paper that starts and ends on the fold line.

Cut out the figure. Then, unfold the cut-out.



Did you get a symmetric figure?

2. Use a piece of A4-size paper.
Fold it twice. Draw a figure that starts and ends on the folds.
Cut out the figure. Then, unfold the cut-out.

Do It Yourself



• Experiential Learning • ACTIVE EXPERIMENTATION

Test for the presence of fat

Collect a few groundnut seeds, a tablespoon each of coconut powder, rice, mustard and cumin seeds. Place each between the folds of a piece of newspaper. Crush with the help of a hammer. In which piece of the newspaper did you observe an oily patch? Note your observation in the table given below.

Coconut powder	
Rice	
Mustard seeds	
Cumin seeds	



The oily patch indicates the presence of fat.

PROJECT-BASED LEARNING

Duration: 4 weeks



Learning Outcomes

At the end of the project, the learner will be able to:

- understand the art of puppetry
- recall and discuss facts about the various puppet forms in India
- synthesise ideas to write about puppets and puppetry
- define ventroloquism

Curricular Connections

- language
- art
- science

21st Century Skills

- life skills
- ICT skills
- research skills
- written communication skills

For the teacher

This project is to be done by students in small groups, to foster in them important 21st Century Skills such as collaboration and communication. The project is designed to expose students to holistic learning through experience, with you acting as a mentor or guide. During the project, you will have the opportunity to assess students for team work, responsibility, initiative, helpfulness and problem-solving.

On the first three days, help students to plan the work by following these steps.

1. Discuss and plan the project
2. Identify resources needed
3. Allocate work within the group
4. Implement the plan
5. Collect required data
6. Sort and organise data
7. Prepare the chart

PUPPETRY IN INDIA

Did you know that the word puppet comes from 'pupa' which means 'doll' in Latin? India is known as the land of puppets. But sadly, nowadays we don't know much about puppets and puppetry. Look up a dictionary and find out what puppetry means.



This project will help you learn about puppets and puppetry in India. You will work in small groups, over 4 weeks to finish the project. For the first few days your teacher will discuss what you will do during the 4 weeks. Work as a team, enjoy the project and make it a success.



Students understand linkages across various subject areas and this prepares them for life

ART INTEGRATION IN CURRICULUM

Learning by Doing: A Cross-curricular Project

Learning Outcomes
At the end of the project, learners will be able to:

- learn about the Moon's surface through the findings of India's Moon missions.
- know that the Earth is larger than the Moon.
- create a scale model of the Earth and the Moon.

Curriculum Connections

- language
- science
- art
- maths



21st Century Skills

- critical thinking
- visual literacy
- media literacy
- research skills

FASCINATING MOON


There is a fascinating world out there in outer space. Do you sometimes wonder about this unexplored world? Does that inspire you to become an astronaut when you grow up?

India has sent two missions to the Moon, both developed and managed by the Indian Space Research Organisation (ISRO). India sent Chandrayaan 1 on 22 October 2008 to explore the Moon, which confirmed the presence of water on it. It was an extremely proud moment for India, when it sent Chandrayaan 2 to the Moon on 22 July 2019. The Lander of Chandrayaan-2 was named Vikram after Dr Vikram A Sarabhai, the Father of the Indian Space Programme. The second mission was expected to collect proof of the existence of water ice. Just before the Vikram lander could soft land on the Moon, ISRO lost communication with Chandrayaan-2. For India, the hope is still on, as Dr APJ Abdul Kalam had said, 'End is not the end. End means, effort never dies.'





Draw emojis and express how the two photos below make you feel.

Awed?	Excited?	Happy to be on the Earth?
Sad?	Lonely?	



This Earthrise photo was taken in 1968, by Apollo 8 astronaut William Anders.



Neil Armstrong working at the Lunar Module Eagle during Apollo 11 mission to Moon in 1969

How big do you think the Moon is? Find out about the size of the Moon compared to the Earth.

Some facts to work with: The Moon is 4 times smaller than the Earth.

You will need:

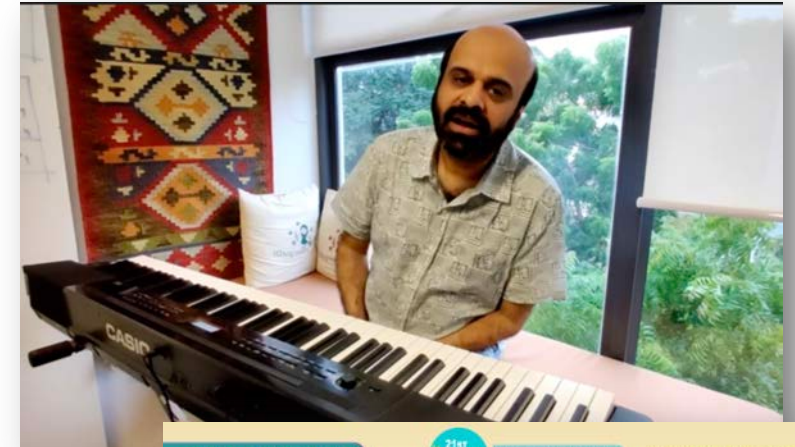
- a globe
- a long string (the length of the string is the circumference of the Earth)
- some balloons
- a measuring tape
- a pair of scissors

LET'S GET STARTED

- Take a long piece of string and measure the circumference of the globe. Cut the string to that size.
- By folding the string, divide it in 4 quarters. Use 1 part of this string as the scale for the size of the Moon.
- Take a balloon and inflate it. Take one quarter piece of the string and circle it. Fit the balloon inside the circled string to get the scale of the Moon. Tie the mouth to get a model of the Moon.
- Now, compare the two strings that you have cut—one for the globe and the other for the Moon—to understand the size of the Moon compared to the Earth.

In the blanks below, record what you know, would like to know and have learnt about the Moon.

What I KNOW about the Moon	What I WANT TO KNOW about the Moon	What I have LEARNT about the Moon



Let's be creative! working collaboratively art-integrated learning

21st Century Skills

Get together with your friends and sing this lullaby with actions.

Little Boy Blue

Little Boy Blue,
Come blow your horn,
The sheep's in the meadow,
The cow's in the corn.
But where is the boy
Who looks after the sheep?
He's under a haystack,
Fast asleep.

Now, set Wynken, Blynken, and Nod to any tune you like and sing it. You may ask your friends to join you.



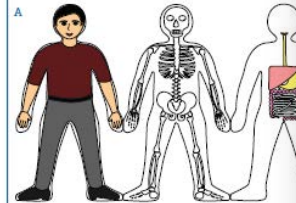
Do It Yourself

Human body

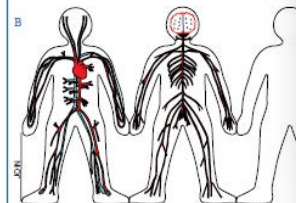
Let us learn to prepare a chart of various organ systems. You will need a chart paper, a pair of safety scissors.

- Draw eight outlines of the human body side-by-side.
- With the help of a pair of safety scissors, cut out the outlines. They are connected to each other.
- Draw various organ systems and fanfold them.

A



B



Courtesy: <https://www.artsintegration.com/arts-integration.html>

STUDY SKILLS

Study Skills are useful as they teach students 'how to learn' and not just 'what to learn'

STUDY SKILLS

Categorise

Place the buildings, trees and shrubs in your school in the category: North-east, South-east, South.

North	South-east	South

STUDY SKILLS

Sequence

As you read, write the names of the continents and oceans from the largest to the smallest.

↓

↓

STUDY SKILLS

Compare and Contrast

As you read, list the ways globes and maps are alike and different.

21st CENTURY SKILLS INTEGRATION

21st CENTURY SKILLS

In the 21st-century classroom, it is necessary to prepare students for the abilities and skills that build the foundation for lifelong learning. With this focus on creating future-ready learners, the Altura series integrates a range of 21st Century Skills with the course content to develop higher order thinking skills, such as critical and creative thinking; literacy skills such as information, media and technology skills; and life skills such as leadership, initiative and productivity skills. These have been identified as essential tools for students to succeed in today's globalised world that is becoming increasingly interconnected.

Names of Skills	Page Numbers
Critical Thinking	6, 11, 19, 25, 32, 34, 52, 54, 67, 75, 77, 85, 92, 94, 100, 107, 110, 115, 118, 120, 123, 132, 135
Information Literacy	8, 10, 43, 72, 86, 89, 97, 99, 108, 120, 129
Life Skills—Flexibility	20, 133
Creativity	28, 32, 77, 100
	32, 34
	34
	92, 100, 110
	34
	41, 54
	43
	77
	87, 91, 134, 135
Collaboration and Communication	91, 112, 129, 135
Life Skills—Leadership	109, 129
Life Skills—Social Skills	120

Critical Thinking

Problem Solving

Logical Reasoning:

Observe the pattern. What number does the letter X represent in each case?

a.



The letter X represents the number _____

Formative And Summative Assessments

Exercises/HOTS/Model Test Papers to assess learning
360 degree holistic report card

MODEL TEST PAPER FOR SEMESTER I*

Time: 3 hours Total Marks: 80

I. Fill in the blanks. (1 × 10 = 10)

- _____ also describes the Earth's various natural features or physical features as well as its people.
- The four main directions are known as the _____ directions.
- The invention of the _____ was important for sailors to locate the direction in which they needed to travel.
- A large group or cluster of stars and planets is called a _____.
- The solar system is a part of a huge family of stars called the _____.
- Your _____ is your history.
- The _____ talks about the time that has gone by.
- The National Anthem of India was written by _____.
- The _____ is the national flower of India.
- The _____ of a place determines the types of crops that are grown there.

II. Write 'T' for true and 'F' for false. Correct and rewrite the false statements. (1 × 10 = 10)

- A map is a model of the spherical Earth, which looks like a miniature version of it.
- Once you know where East is, you can find the other directions.
- In the olden days sailors always studied the location of the Sun, Moon and stars to guide them across oceans and seas.
- All planets are of nearly the same size, but differ in shape.
- The Sun has no light or heat of its own.
- The Earth is the only planet to have life on it.
- Historians use timelines as a tool to study history.
- 1000 years make a century.
- White colour in the Indian national flag indicates strength and courage.
- India showcases a rich diversity of people, who are united together as Indians.

III. Tick (✓) the correct option. (1 × 10 = 10)

- The model of the Earth is called
 - a map.
 - a globe.
 - an atlas.
- What do different colours on a map show?
 - natural features
 - location
 - both of these

*Note: Based on Chapters 1, 2, 3, 8, 10 and 11 of this book.

QUICK CHECK

Let's explore—present, past and future.

▶ Today is (write the day of the week):

▶ Today, I (write three things you did today, in the order)

-
-
-

▶ Yesterday was (write the day of the week):

▶ Yesterday, I (write three things you did yesterday, in the order)

-
-
-

360-DEGREE HOLISTIC PROGRESS CARD

READING COMPREHENSION						
Learning Outcomes	Self-assessment		Peer-assessment		Teacher assessment	
	can do this	need some help	can do this	need some help	can do this	need some help
read and comprehend the lessons						
recall facts and answer the questions						
analyse the think and answer questions						
VOCABULARY						
Learning Outcomes	Self-assessment		Peer-assessment		Teacher assessment	
	can do this	need some help	can do this	need some help	can do this	need some help
identify synonyms correctly						
choose words in context						
list rhyming words						
understand rhyme scheme						
recognise homophones						
list antonyms						
define simile						
build compound words						
apply collocations						
observe alliteration						
apply prefixes and suffixes						
comprehend sensory words						
LANGUAGE AND GRAMMAR						
Learning Outcomes	Self-assessment		Peer-assessment		Teacher assessment	
	can do this	need some help	can do this	need some help	can do this	need some help
identify and apply proper and common nouns						
understand the use of countable and uncountable nouns						
construct sentences using simple present and simple past tenses						
read adverbs of manner and time						
formulate sentences using present continuous and past continuous tenses						

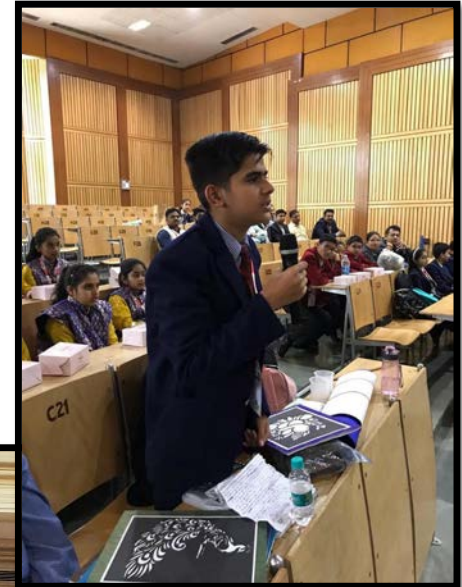
SUPPORT AND SERVICES

THE BEST FROM MACMILLAN EDUCATION

Training Services

Success of Altura lies in its' easy implementation in school. We are committed to support you every step of the way through

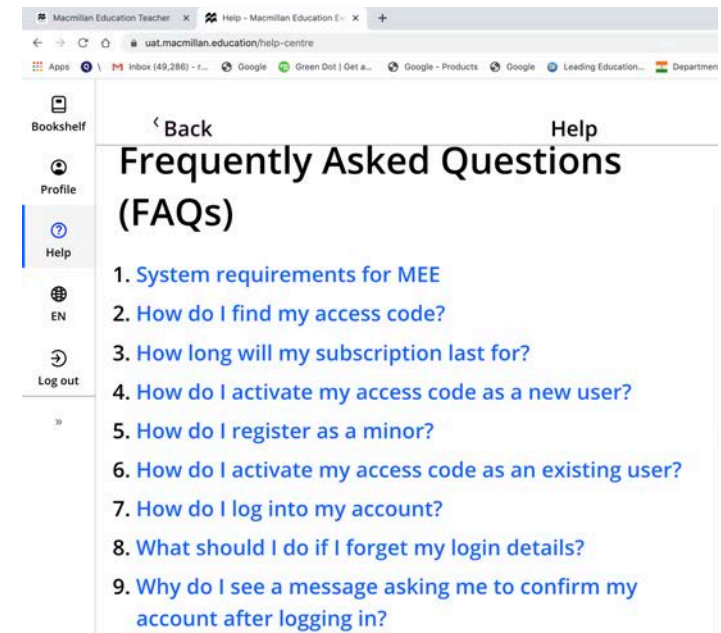
- Introduction to all features and benefits – session for Schools, Teachers, Parents and Students
- Setting up roles for Admin, teachers and Students with upload of data : 3 days
- Usage in the classroom : 1 day
- Blended Pedagogy sessions : 1 day
- Subject Expertise sessions : 2 sessions
- Classroom Discussions : 4 sessions
- Periodic Reviews
- Student Contests
- Teacher Training



Customer Support

- **Email** For any pedagogical queries on the content (print or digital), please drop a email us at in.alturasupport@macmillaneducation.com and we will get back to you within 48 hours. We would be happy to receive feedback and respond to any queries or doubts
- **Knowledge Base** Altura has online training tutorials and video demos that explain how to access resources and are available on the dashboard. Visit our Youtube Channel to access the videos.
- **Phone Call** Your reliable Sales and Marketing team or dedicated phone call support.

FAQs Frequently asked questions are periodically updated by Macmillan and cover the most often experienced concerns or challenges,. Visit below link and search for Altura
<https://macmillaneducation.secure.force.com/help/>



ALTURA is an integrated blended learning solution for anytime anywhere teaching-learning

Benefits to School

Schools will be able to use ALTURA to enhance teaching-learning to take it to next level

Teachers will use ALTURA effectively to save time and make work easy

E-learning way forward

Parents will become partners in education by getting full visibility into what the child is doing

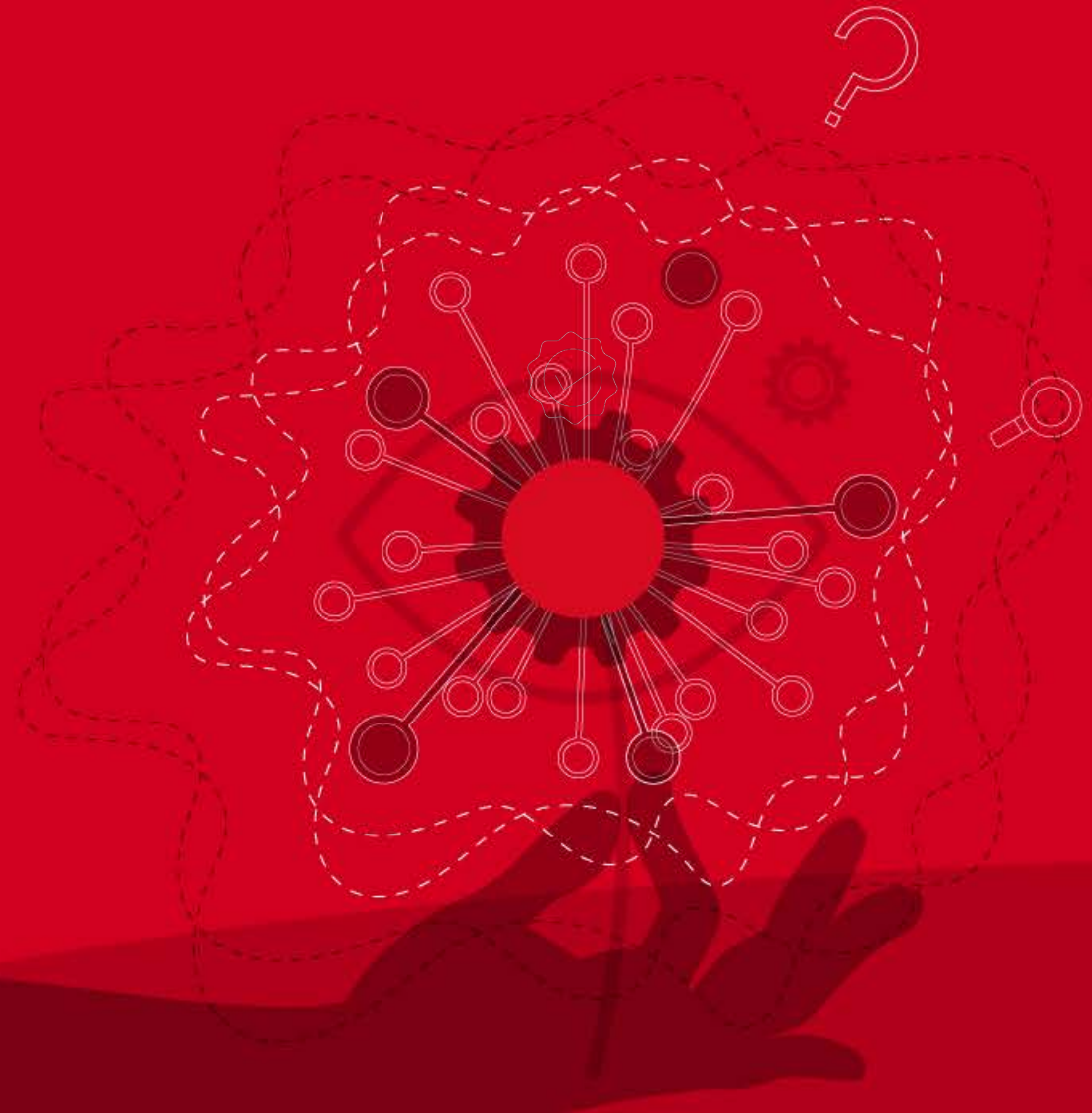
Students will get conceptual clarity and become learners for life

Quality content, support and services from MACMILLAN EDUCATION

ADVANCING
LEARNING



Thank you



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