

1) The **Dr. Homi Bhabha Balvaidnyanik Competition (DHBBVC)** is a prestigious science talent competition organized by the **Mumbai Science Teachers' Association (MSTA)** to develop scientific thinking, curiosity, observation, experimentation and problem-solving skills among school students.

The competition assesses theoretical science knowledge, practical scientific skills and scientific aptitude through multiple selection stages.

- **Eligible Classes:** 6th and 9th
- **Examination:** Science Talent Competition
- **Organizer:** MSTA, Mumbai
- **Examination Level:** Competitive / Talent Search
- **Selection:** Multiple stages, subject to official rules

2. Tentative Exam Schedule 2026–27

| Event | Tentative Period |

|---|---|

| Online Registration | Mid-2026 |

| Stage I – Written Examination | October–November 2026 |

| Stage I Result | November–December 2026 |

| Stage II – Practical Examination | December 2026–January 2027 |

| Project / Further Selection Stages | January–March 2027 |

| Interviews / Final Selection | Early 2027 |

| Final Results & Awards | As announced by MSTA |

Important: These are indicative planning periods only, not confirmed 2026–27 dates. Please refer to official MSTA announcements for registration deadlines, examination dates and results.

3. Eligibility Criteria

- Students studying in **Class 6 or Class 9** during the relevant academic year.

- Students from Maharashtra State Board, CBSE, ICSE and other permitted boards, subject to MSTA eligibility rules.

- Students must fulfill the registration, school, medium and other requirements mentioned in the official notification.

4. Examination Pattern

The competition traditionally includes the following components:

****Stage I – Written Examination****

- Objective-type / Multiple-Choice Questions (MCQs).
- Approximately 100 science questions, based on the traditional pattern.
- Questions test scientific knowledge, understanding, reasoning and applications.
- Duration, exact question count and marking scheme for 2026–27 are subject to confirmation.

****Stage II – Practical Examination****

- Hands-on scientific experiments.
- Observation, measurement and practical problem-solving.
- Interpretation of experimental results.

****Further Selection Stages****

- Scientific action research or project work.
- Scientific discussion and interviews.
- Assessment of scientific understanding, creativity and reasoning.

The exact number, order, weightage and selection criteria of stages will be governed by the current MSTA rules.

5. Detailed Science Syllabus

Class 6 – Science Syllabus

Preparation generally covers concepts from Classes 4, 5 and 6.

****Biology & Environmental Science****

- Plants and their parts
- Animals and their habitats
- Human body and health
- Food, nutrition and hygiene
- Living and non-living things
- Ecosystems and environmental protection

****Physics****

- Force and motion
- Light, sound and heat
- Electricity and magnets
- Simple machines
- Measurement and scientific instruments

****Chemistry & General Science****

- States and properties of matter
- Solids, liquids and gases
- Air, water and their properties
- Separation of substances
- Changes in materials
- Everyday scientific phenomena

Class 9 – Science Syllabus

Preparation generally covers science concepts from Classes 7, 8 and 9.

****Physics****

- Motion, force and laws of motion
- Gravitation
- Work, energy and power
- Heat, light and sound
- Electricity and magnetism
- Measurement and scientific applications

****Chemistry****

- Matter and its properties
- Elements, compounds and mixtures
- Atoms and molecules
- Chemical changes and reactions
- Acids, bases and salts
- Metals and non-metals

****Biology****

- Cell structure and functions
- Classification of living organisms
- Human body systems
- Nutrition and health
- Microorganisms
- Reproduction and life processes
- Environment and natural resources

****Scientific Skills****

- Experimental methods
- Data interpretation
- Scientific reasoning
- Practical applications

- Project-based scientific investigation

The above is a topic-wise preparation guide, not a verified official 2026–27 chapter list. Students should follow the latest MSTA syllabus.

6. Recommended Books

For Class 6

- Balbharati Science Textbooks – Classes 4, 5 and 6
- Relevant NCERT Science / EVS textbooks
- Dr. Homi Bhabha preparation workbooks
- Science experiment and practical activity books
- Previous-year question papers

For Class 9

- Balbharati Science Textbooks – Classes 7, 8 and 9
- Relevant NCERT Science textbooks
- Science objective-question practice books
- Practical science experiment books
- Previous-year papers and model question sets

****Preparation Tip:**** Complete school science textbooks before attempting advanced competitive questions.

7. Test Series & Mock Examinations

Recommended UCA Preparation Format

- Chapter-wise MCQ practice
- Weekly science tests
- Concept-based assignments
- Full-syllabus mock examinations

- Previous-year question paper practice
- Practical experiment preparation
- Project guidance and scientific interview practice
- Performance analysis and doubt-solving

Specific UCA test-series availability, dates and fees should be confirmed with the academy.

8. Examination Registration Fees

****Official Examination Fee (2026–27): To Be Confirmed****

Registration fees, payment methods, permitted late fees and refund conditions are determined by MSTA.

Any separate academy coaching or mock-test fee will be communicated independently.

9. Previous-Year Question Papers

Previous-year question papers help students understand:

- Question difficulty levels
- Important science concepts
- Common question formats
- Application-based questions
- Time management and accuracy

****Study Resources****

- Previous-year MCQ papers
- Model question papers
- Answer keys and explanations
- Topic-wise practice worksheets

- Practical examination guidance

Students should use officially released or properly licensed papers. Availability of downloadable papers depends on source permissions.

10. Important Tips to Qualify

1. ****Build strong science fundamentals**** using school textbooks.
2. ****Understand concepts rather than memorizing answers.****
3. Practice science MCQs and reasoning-based questions regularly.
4. Revise important definitions, scientific principles and experiments.
5. Develop observation and practical experimentation skills.
6. Solve previous-year papers under timed conditions.
7. Maintain a notebook of mistakes and important concepts.
8. Prepare small science projects to develop research skills.
9. Practice explaining scientific concepts confidently.
10. Follow a consistent timetable with regular revision and mock tests.

Prepare for Dr. Homi Bhabha with UCA!

****Unhale Career Academy**** encourages students to build a strong science foundation, improve competitive examination skills and develop scientific curiosity.

****Our Academic Strengths****

- Experienced Subject Faculty
- Concept-Based Science Teaching
- Competitive Exam Preparation
- Weekly Assessments
- Science Laboratory Facility
- Doubt-Solving Support

- Individual Academic Guidance

****Admissions & Enquiries****

****Unhale Career Academy (UCA)****

Classes 5th to 10th – Foundation & Competitive Exam Preparation

****Contact:**** 8275232618

****Address:**** Osmanpura, Chhatrapati Sambhajnagar, Maharashtra

****Schooling with Foundation – Future Ready Students****

***Disclaimer:** Information is provided for student guidance. Official notifications and rules issued by MSTa will take precedence. Dates, syllabus, selection stages, fees and eligibility for 2026–27 require official confirmation.*