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Global STEM Education in K-12 Market Size Study, By Type (Self-paced, Instructor-led), By Application (Elementary School (K-5), Middle School (6-8), High School (9-12)), and Regional Forecasts 2022-2032

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Abstracts

The global STEM education in K-12 market was valued at USD billion in 2023 and is projected to grow at a robust CAGR of 14% during the forecast period, reaching USD 125.85 billion by 2032. This growth is driven by the rising emphasis on technological innovation, critical thinking, and problem-solving skills that form the foundation of STEM (Science, Technology, Engineering, and Mathematics) education. STEM education fosters creativity, ingenuity, and a strong understanding of emerging technologies such as artificial intelligence (AI), machine learning, and quantum computing, preparing students for future career opportunities in a technology-driven world.

The market's rapid growth is supported by advancements in EdTech (Educational Technology), including online learning platforms, virtual simulations, robotics, and personalized learning tools. Governments worldwide are investing heavily in STEM education initiatives to nurture innovation and competitiveness. For instance, increased funding for teacher training and curriculum development enhances the accessibility and effectiveness of STEM programs, particularly in developing regions. STEM pedagogy in K-12 education is recognized as critical in addressing skill gaps and ensuring students are equipped to meet the demands of a dynamic workforce.

Key Market Drivers:

Growing adoption of EdTech solutions for personalized and engaging STEM learning.

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Rising demand for a workforce equipped with STEM skills in a technology-driven economy.

Increased government investment in STEM education programs to promote inclusivity and innovation.

Regional Insights: North America leads the STEM education in K-12 market, accounting for over 44% of global revenue in 2024, driven by a robust EdTech ecosystem and a strong emphasis on innovation and technological advancements. Asia-Pacific is poised to exhibit the fastest growth due to rapid economic development, rising adoption of STEM-focused curricula, and increased investment in education infrastructure in countries like India and China. Europe is also gaining traction, supported by collaborative initiatives and funding programs from the European Union to enhance STEM education across member states.

Type Insights: The self-paced learning segment dominated the market in 2024, accounting for over 68% of the global revenue share. This segment is driven by the increasing adoption of flexible learning solutions that allow students to progress at their own pace, leveraging tools like interactive lessons and real-time assessments. The instructor-led segment is expected to witness significant growth, benefiting from group-based learning methods that encourage collaboration, problem-solving, and the use of innovative teaching tactics.

Application Insights: The high school (9-12) segment held the largest market share in 2024, driven by the increasing penetration of online education and the emphasis on preparing students for specialized STEM careers. High school STEM programs offer project-based learning opportunities, enabling students to apply theoretical knowledge to real-world challenges. Middle school (6-8) is anticipated to grow significantly during the forecast period, with initiatives aimed at nurturing early interest in STEM subjects through hands-on experiments and technology integration.

Major Market Players Included in this Report:

Activate Learning

Amplify Education, Inc.

Bedford, Freeman & Worth Publishing Group, LLC

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Carolina Biological Supply Company

Cengage Learning

Discovery Education

EduCo International

Houghton Mifflin Harcourt

Kendall Hunt Publishing Company

Lab-Aids

McGraw Hill

OpenSciEd

PASCO Scientific

Savvas Learning

School Specialty, LLC

Detailed Segments and Sub-segments of the Market:

By Type:

Self-paced

Instructor-led

By Application:

Elementary School (K-5)

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Middle School (6-8)

High School (9-12)

By Region:

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

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Middle East & Africa

UAE

South Africa

KSA

Years considered for the study are as follows:

Historical year – 2024

Base year – 2022

Forecast period – 20264to 2032

Key Takeaways:

Market estimates & forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level insights.

Competitive landscape with information on major players in the market.

Key business strategies and recommendations for market entry and growth.

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Contents

CHAPTER 1. GLOBAL STEM EDUCATION IN K-12 MARKET EXECUTIVE SUMMARY

1.1. Global STEM Education in K-12 Market Size & Forecast (2022-2032)
1.2. Regional Summary
1.3. Segmental Summary
  1.3.1. By Type
  1.3.2. By Application
1.4. Key Trends
1.5. Recession Impact
1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL STEM EDUCATION IN K-12 MARKET DEFINITION AND RESEARCH ASSUMPTIONS

2.1. Research Objective
2.2. Market Definition
2.3. Research Assumptions
  2.3.1. Inclusion & Exclusion
  2.3.2. Limitations
  2.3.3. Supply Side Analysis
    2.3.3.1. Availability
    2.3.3.2. Infrastructure
    2.3.3.3. Regulatory Environment
    2.3.3.4. Market Competition
    2.3.3.5. Economic Viability (Consumer’s Perspective)
  2.3.4. Demand Side Analysis
    2.3.4.1. Regulatory Frameworks
    2.3.4.2. Technological Advancements
    2.3.4.3. Environmental Considerations
    2.3.4.4. Consumer Awareness & Acceptance
2.4. Estimation Methodology
2.5. Years Considered for the Study
2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL STEM EDUCATION IN K-12 MARKET DYNAMICS

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3.1. Market Drivers
3.1.1. Growing demand for technology-driven education
3.1.2. Rising adoption of EdTech in classrooms
3.1.3. Emphasis on critical thinking and problem-solving skills
3.2. Market Challenges
3.2.1. High costs of educational technologies
3.2.2. Limited access in underdeveloped regions
3.3. Market Opportunities
3.3.1. Increasing investments in STEM education programs
3.3.2. Expansion of EdTech platforms in emerging markets

CHAPTER 4. GLOBAL STEM EDUCATION IN K-12 MARKET INDUSTRY ANALYSIS

4.1. Porter’s 5 Force Model
4.1.1. Bargaining Power of Suppliers
4.1.2. Bargaining Power of Buyers
4.1.3. Threat of New Entrants
4.1.4. Threat of Substitutes
4.1.5. Competitive Rivalry
4.1.6. Futuristic Approach to Porter’s 5 Force Model
4.1.7. Porter’s 5 Force Impact Analysis
4.2. PESTEL Analysis
4.2.1. Political
4.2.2. Economical
4.2.3. Social
4.2.4. Technological
4.2.5. Environmental
4.2.6. Legal
4.3. Top Investment Opportunities
4.4. Top Winning Strategies
4.5. Disruptive Trends
4.6. Industry Expert Perspective
4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL STEM EDUCATION IN K-12 MARKET SIZE & FORECASTS BY TYPE (2022-2032)

5.1. Segment Dashboard
5.2. Global STEM Education in K-12 Market: Type Revenue Trend Analysis, 2022 &

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2032 (USD Million)
5.2.1. Self-paced
5.2.2. Instructor-led

CHAPTER 6. GLOBAL STEM EDUCATION IN K-12 MARKET SIZE & FORECASTS BY APPLICATION (2022-2032)

6.1. Segment Dashboard
6.2. Global STEM Education in K-12 Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)
6.2.1. Elementary School (K-5)
6.2.2. Middle School (6-8)
6.2.3. High School (9-12)

CHAPTER 7. GLOBAL STEM EDUCATION IN K-12 MARKET SIZE & FORECASTS BY REGION (2022-2032)

7.1. North America STEM Education in K-12 Market
7.1.1. U.S. STEM Education in K-12 Market
7.1.2. Canada STEM Education in K-12 Market
7.1.3. Mexico STEM Education in K-12 Market
7.2. Europe STEM Education in K-12 Market
7.2.1. UK STEM Education in K-12 Market
7.2.2. Germany STEM Education in K-12 Market
7.2.3. France STEM Education in K-12 Market
7.3. Asia Pacific STEM Education in K-12 Market
7.3.1. China STEM Education in K-12 Market
7.3.2. India STEM Education in K-12 Market
7.3.3. Japan STEM Education in K-12 Market
7.3.4. Australia STEM Education in K-12 Market
7.3.5. South Korea STEM Education in K-12 Market
7.4. Latin America STEM Education in K-12 Market
7.4.1. Brazil STEM Education in K-12 Market
7.5. Middle East & Africa STEM Education in K-12 Market
7.5.1. UAE STEM Education in K-12 Market
7.5.2. South Africa STEM Education in K-12 Market
7.5.3. KSA STEM Education in K-12 Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

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8.1. Key Company SWOT Analysis
8.1.1. McGraw Hill
8.1.2. Discovery Education
8.1.3. Amplify Education, Inc.
8.2. Top Market Strategies
8.3. Company Profiles
8.3.1. McGraw Hill
8.3.2. PASCO Scientific
8.3.3. OpenSciEd
8.3.4. Savvas Learning
8.3.5. Lab-Aids

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process
9.1.1. Data Mining
9.1.2. Analysis
9.1.3. Market Estimation
9.1.4. Validation
9.1.5. Publishing
9.2. Research Attributes

12. LIST OF TABLES

TABLE 1. Global STEM Education in K-12 Market, Report Scope
TABLE 2. Global STEM Education in K-12 Market Estimates & Forecasts by Region 2022-2032 (USD Million)
TABLE 3. Global STEM Education in K-12 Market Estimates & Forecasts by Type 2022-2032 (USD Million)
TABLE 4. Global STEM Education in K-12 Market Estimates & Forecasts by Application 2022-2032 (USD Million)
TABLE 5. Global STEM Education in K-12 Market by Segment, 2022-2032 (USD Million)
TABLE 6. Key STEM Education Companies Revenue Analysis, 2022-2032
TABLE 7. Regional Breakdown of Self-paced Learning Revenue, 2022-2032
TABLE 8. Global STEM Education in K-12 Market Growth Rate by Country, 2022-2032

12. LIST OF FIGURES

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FIG 1. Global STEM Education in K-12 Market, Research Methodology
FIG 2. Global STEM Education in K-12 Market, Market Estimation Techniques
FIG 3. Global STEM Education in K-12 Market by Type, 2022 & 2032 (USD Million)
FIG 4. Global STEM Education in K-12 Market by Application, 2022 & 2032 (USD Million)
FIG 5. North America STEM Education in K-12 Market Share by Type, 2022-2032
FIG 6. Asia Pacific STEM Education in K-12 Market Growth Rate by Application, 2022-2032
FIG 7. Key Companies Competitive Landscape, 2022-2032

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