

TeachME Professional Development

Introducing STEAM Learning

1. Which component was added last to STEAM education?

- A. Mathematics
 - B. The Arts
 - C. Technology
 - D. Science
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2. Of the following, which has been identified as a necessary 21st century learning skill?

- A. Critical Thinking
 - B. Independent Thinking
 - C. Design Thinking
 - D. Analytical Thinking
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3. STEAM learners who observe and record what is seen, rather than basing observations on their opinions, are demonstrating what characteristic?

- A. Integrity
 - B. Appreciation
 - C. Precision
 - D. Objectivity
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4. Which pedagogical learning approach allows learners to conduct research and apply knowledge and various skills to find viable solutions to specific problems?

- A. Project or Inquiry-Based Learning
 - B. Problem-Based Learning
 - C. Integrated STEAM Education
 - D. Makerspace Learning
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5. Which of the following is recommended as an effective way to specifically incorporate STEAM learning into virtual learning spaces?

- A. Makerspace Learning
 - B. Research Inquiries
 - C. Online Field Trips
 - D. Independent Web Searches
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6. Which of the following is NOT a component of the arts in STEAM education?

- A. Psychology
 - B. Physiology
 - C. Anthropology
 - D. Geology
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7. Students who perform well-planned experiments and use problem-solving techniques in STEAM are demonstrating:

- A. Systematic skills
 - B. Diligence
 - C. Open-Mindedness
 - D. Objectivity
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8. During a STEAM lesson, which is likely to occur first?

- A. Learners plan and carry out investigations.
 - B. Learners ask questions and define problems.
 - C. Learners develop and use models.
 - D. Learners construct explanations for science and design solutions for engineering.
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9. Students careful with using applicable measurement tools and techniques during STEAM learning are demonstrating which of the following benefits and values?

- A. Ethical Decision-Making
 - B. Objectivity
 - C. Precision
 - D. Diligence
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10. STEM Learning originally came about in 2001 because:

- A. Researchers recognized the benefits of incorporating creativity into learning.
 - B. Prominent artists saw real value in combining artistic and scientific knowledge together.
 - C. Policy makers had a goal of increasing postgraduate studies in common STEM fields.
 - D. Reports emphasized important links between the knowledge of science and technology and successful careers in related disciplines.
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