

Learning in the 21st Century



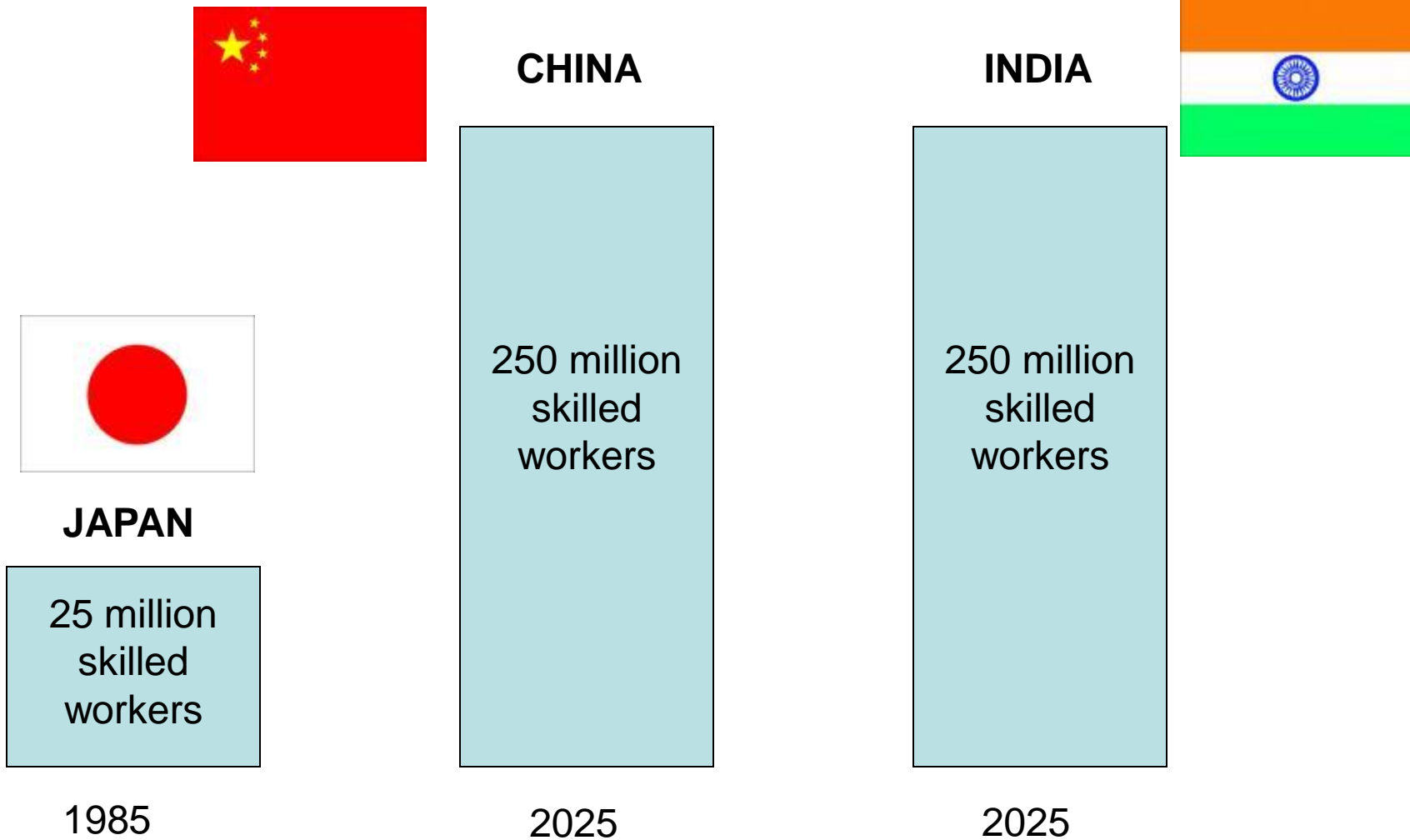
New Technology High School

- The business community in Napa, California became frustrated with the lack of skilled local employees and determined that no child should graduate high school without critical 21st century skills, such as effective communication and critical thinking.
- They supported their local district in creating New Technology High School, where curriculum now reflects a 21st century approach to education.

New Tech High

- Project-based Learning
 - Integrated projects that foster active learning, high order thinking skills and more authentic evaluation of the standards and 21st century skills.
- 21st century skills are embedded into their assessment process.
- Forge partnerships with the school districts, the county office of education, local community colleges, and parents and business partners to support the high school experience.

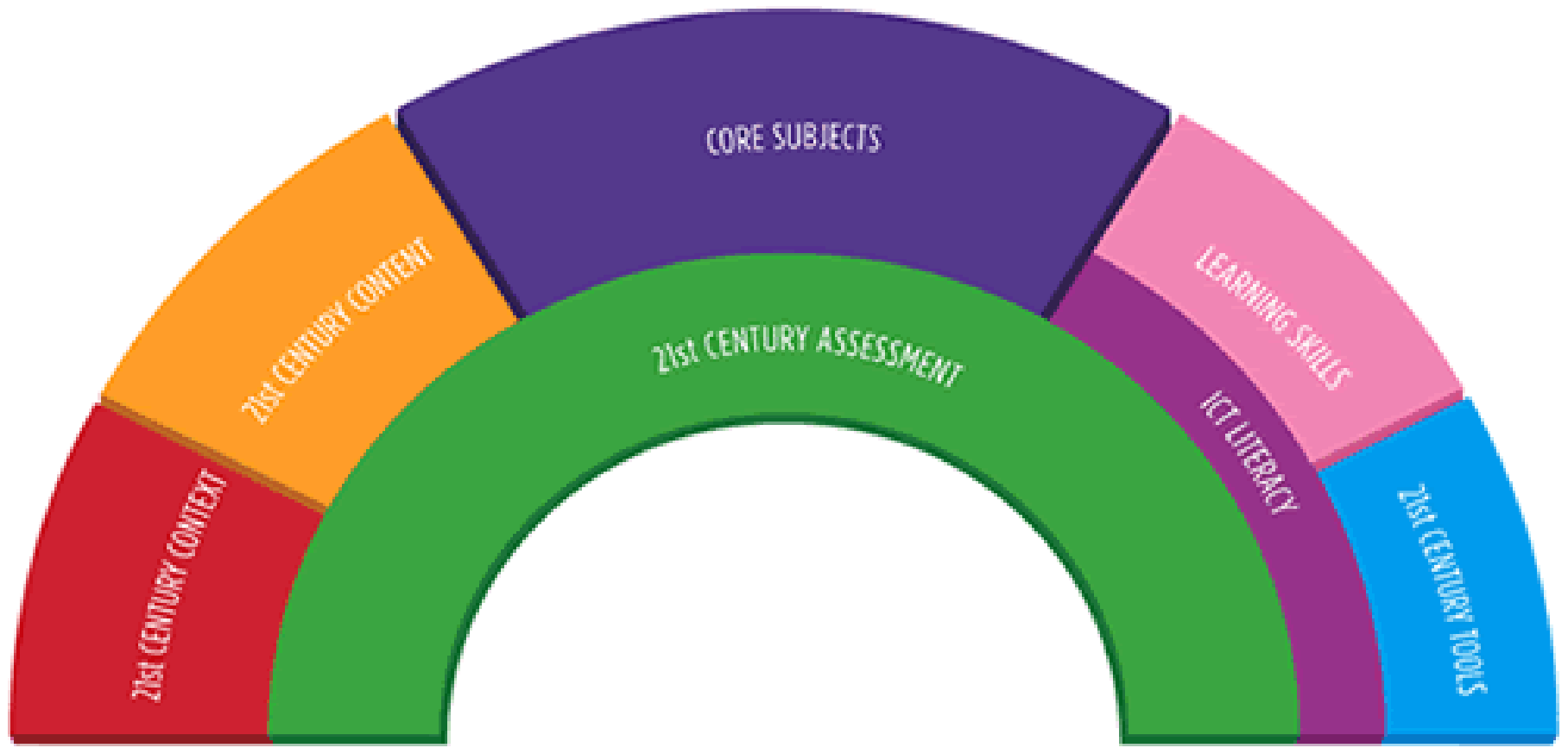
Why is there a need for 21st Century Skills?



21st Century

- What skills will students need?
- What technologies will be essential?
- How will learning be redefined?
- What skills will the jobs of the future demand?
 - What does it mean to be a skilled worker?

21st CENTURY SKILLS

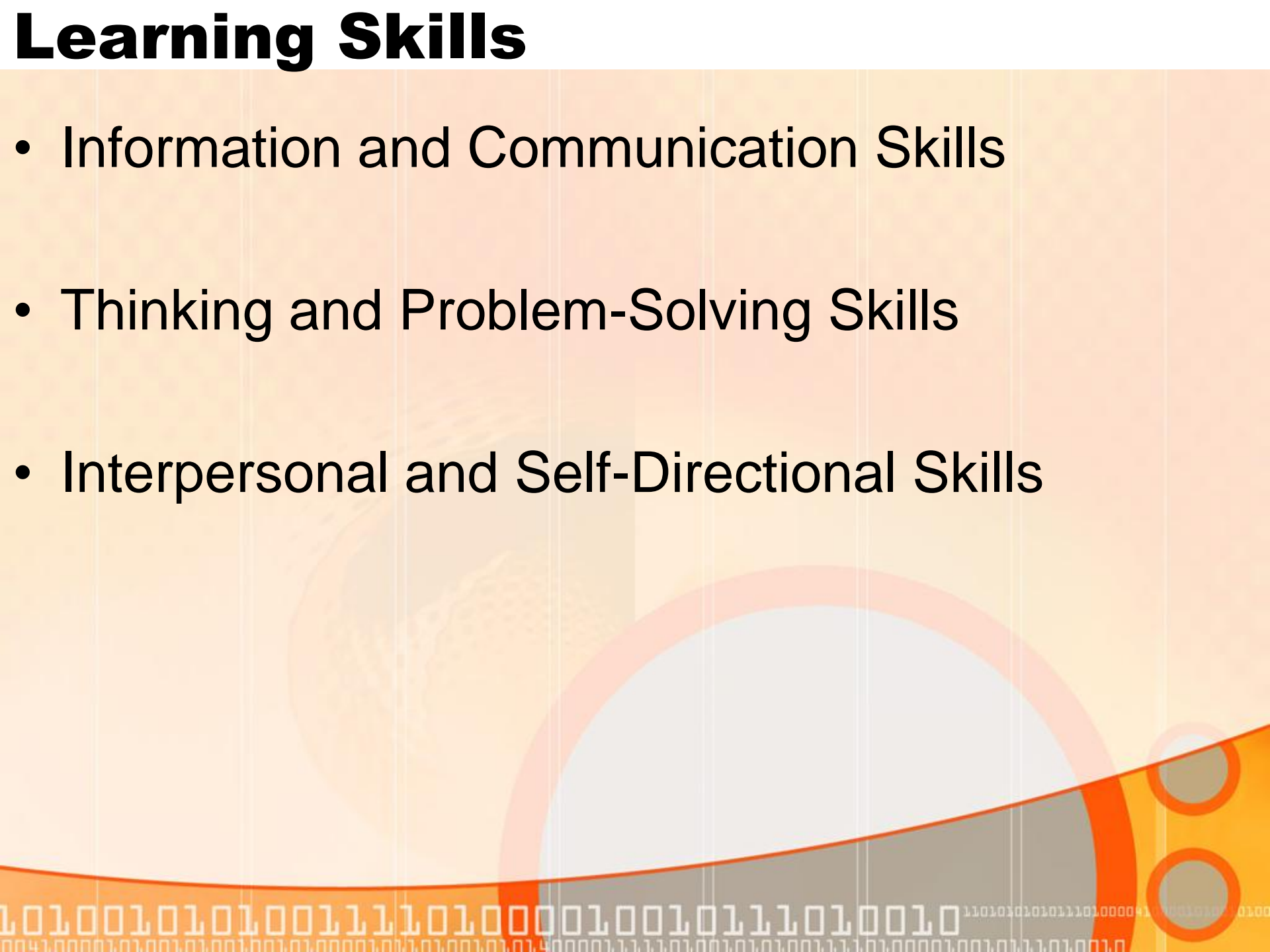


Core Subjects

- English, reading or language arts;
- Mathematics;
- Science;
- Foreign languages;
- Civics;
- Government;
- Economics;
- Arts;
- History; and
- Geography

The focus on core subjects must expand beyond basic competency to the understanding of core academic content at much higher levels.

Learning Skills

- Information and Communication Skills
 - Thinking and Problem-Solving Skills
 - Interpersonal and Self-Directional Skills
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- The background features a stylized globe in the center, a rising sun with rays on the right, and a binary code pattern at the bottom. The overall color scheme is warm, with shades of orange, yellow, and red.

Information and Communication Skills

- Information & Media Literacy:
 - Analyzing, accessing, managing, integrating, evaluating and creating information in a variety of forms and media.
 - Understanding the role of media in society.
- Communication Skills:
 - Understanding, managing and creating effective oral, written and multimedia communication in a variety of forms and contexts.

Thinking and Problem-Solving Skills

- **Critical Thinking & Systems Thinking:**
 - Exercising sound reasoning in understanding and making complex choices, understanding the interconnections among systems.
- **Problem identification, formulation and solution:**
 - Ability to frame, analyze and solve problems.
- **Creativity and intellectual curiosity:**
 - Developing, implementing and communicating new ideas to others, staying open and responsive to new and diverse perspectives.

Interpersonal and Self-Directional Skills

- Interpersonal and collaborative skills:
 - Demonstrating teamwork and leadership:
 - adapting to varied roles and responsibilities;
 - working productively with others;
 - exercising empathy;
 - respecting diverse perspectives.
- Self Direction:
 - Monitoring one's own understanding and learning needs, locating appropriate resources, transferring learning from one domain to another.

Interpersonal and Self-Directional Skills Cont.

- **Accountability and Adaptability:**
 - Exercising personal responsibility and flexibility in personal, workplace and community contexts;
 - Setting and meeting high standards and goals for one's self and others;
 - Tolerating ambiguity.
- **Social Responsibility:**
 - Acting responsibly with the interests of the larger community in mind;
 - Demonstrating ethical behavior in personal, workplace and community contexts.

21st Century Tools

- In a digital world, students need to learn to use the tools to master the learning skills that are essential to everyday life and workplace productivity.
- This proficiency is known as ICT Literacy.

21st Century Context

- Students need to learn academic content through real-world examples, applications and experiences both inside and outside of school.
- Students are better learners when education is relevant, engaging and meaningful to their lives.
 - They understand subjects better and retain more information.

21st Century Content

- Education and business leaders identified three significant emerging content areas that are critical to success in communities and workplaces:
 - Global awareness
 - Financial, economic and business literacy, and developing entrepreneurial skills to enhance workplace productivity and career options
 - Civic literacy

So how do we help students develop these skills???

