ITEEA Standards Alignment

Student Standards

Legend

- The standard is clearly addressed by program activities.
 This standard potentially could be addressed as part of FIRST® LEGO®
 League Discover either by actions that the coach or teacher takes when
 - League Discover either by actions that the coach or teacher takes when working with the students or by conditions established by the program.



Grades K-2

1 Students will develop an understanding of the characteristics and scope of technology. A The natural world and human-made world are different. B All people use tools and techniques (technology) to help them do things. 2 Students will develop an understanding of the core concepts of technology. A Some systems are found in nature, and some are made by humans. B Systems have parts or components that work together to accomplish a goal. C Tools are simple objects that help humans complete tasks. D Different materials are used in making things. E People plan in order to get things done. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study. A The study of technology uses many of the same ideas and skills as other subjects. 4 Students will develop an understanding of the cultural, social, economic, and political effects of technology. A The use of tools and machines can be helpful or harmful. 5 Students will develop an understanding of the effects of technology on the environment of technology. A Some materials can be reused and/or recycled. Students will develop an understanding of the role of society in the development and u of technology. A Products are made to meet individual needs and wants. 7 Students will develop an understanding of the influence of technology on history. A The way people live and work has changed throughout history because of technology.	- - - - -
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8 Students will develop an understanding of the attributes of design.	•
A Everyone can design solutions to a problem.	•
B Design is a creative process.	•
9 Students will develop an understanding of engineering design.	•
The engineering design process includes identifying a problem, looking for ideas, developing solutions with others. B Expressing ideas to others verbally and through sketches and models is an important part of the	ions,
design process.	•
Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.	•
A Asking questions and making observations helps a person to figure out how things work.	•
B All products and systems are subject to failure. Many products and systems, however, can be fixed	

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Abilities for a Technological World	11	Students will develop abilities to apply the design process.	•
	Α	Brainstorm people's needs and wants and pick some problems that can be solved through the design process.	•
	В	Build or construct an object using the design process.	-
	С	Investigate how things are made and can be improved.	•
	12	Students will develop abilities to use and maintain technological products and systems.	•
	Α	Discover how things work.	•
	В	Use hand tools correctly & safely & name them correctly.	
	С	Recognize and use everyday symbols.	
	13	Students will develop abilities to assess the impact of products and systems.	-
	Α	Collect information about everyday products and systems by asking questions.	-
	В	Determine if the human use of a product or system creates positive or negative results.	-
	14	Students will develop an understanding of and be able to select and use medical technologies.	-
	Α	Vaccinations protect people from getting certain diseases.	-
	В	Medicine helps people who are sick to get better.	-
	С	There are many products designed specifically to help people take care of themselves.	-
	15	Students will develop an understanding of and be able to select and use agricultural and related biotechnologies.	-
	Α	The use of technologies in agriculture makes it possible for food to be available year round and to conserve resources.	-
	В	There are many different tools necessary to control and make up the parts of an ecosystem.	-
	16	Students will develop an understanding of and be able to select and use energy and power technologies.	-
75	Α	Energy comes in many forms.	-
) i	В	Energy should not be wasted.	-
) N Pe	17	Students will develop an understanding of and be able to select and use information and communication technologies.	-
gu gu	Α	Information is data that has been organized.	-
esi	В	Technology enables people to communicate by sending and receiving information over a distance.	-
The Designed World	С	People use symbols when they communicate by technology.	-
	18	Students will develop an understanding of and be able to select and use transportation technologies.	-
	Α	A transportation systems has many parts that work together to help people travel.	-
	В	Vehicles move people or goods from one place to another in water, air or space, and on land.	
	С	Transportation vehicles must be cared for to prolong use.	-
	19	Students will develop an understanding of and be able to select and use manufacturing technologies.	-
	Α	Manufacturing systems produce products in quantity.	-
	В	Manufactured products are designed.	-
	20	Students will develop an understanding of and be able to select and use construction technologies.	-
	Α	People live, work, & go to school in buildings, which are of different types: houses office buildings, & schools.	-
	В	The type of structure determines how the parts are put together.	-