## SPECIFIC STEM CATEGORIES: 7-9 YEARS

The toy supports one or more learning goals in at least two STEM subjects.
RATING CRITERIA


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## RATING CRITERIA

| Area | Criteria | Example Toy |
| :---: | :---: | :---: |
| Technology | Digital Tools | Zing StikBot Studio |
|  | - Using technology tools to support their learning (e.g. text to speech, audio, video, highlighting) | Poseable figurines that allow |
|  | - Using technology to seek feedback to inform learning (e.g. spellcheck, online search) | motion animations, using an app. |
|  | - Using technology to demonstrate learning (e.g. digital posters, blogs) |  |
|  | - Using basic devices and software applications |  |
|  | - Solving technical problems (e.g. restarting a device, installing updates) and transferring this knowledge to new technologies |  |
|  | Digital Citizenship |  |
|  | - Understanding the permanence of their actions in the digital world |  |
|  | - Engaging in positive, safe, legal and ethical behavior when using technology |  |
|  | - Managing personal data to maintain digital privacy and security and being aware of data-collection technology used to track their navigation online |  |
|  | Information Gathering |  |
|  | - Using effective research strategies to locate information and other resources through digital tools (e.g. using multiple sources, video and audio clips) |  |
|  | - Curating information from digital resources using a variety of tools (e.g. note taking, citation tools) |  |
|  | - Actively exploring real-world issues and problems using digital tools |  |


| Area | Criteria |
| :--- | :--- |
| Technology |  |
| Innovation and Creation |  |
| - Using a deliberate design process for generating ideas, testing |  |
| theories, creating innovative artifacts (e.g. 3D printing, computer |  |
| programs, robotics, simulations, virtual representations, |  |
| prototypes) or solving authentic problems using technology |  |
| - Using digital tools to plan and manage a design process that |  |
| considers design constraints and calculated risks |  |
| - Developing, testing and refining prototypes as part of a cyclical |  |
| design process |  |
| - Creating original works or responsibly repurposing or remixing |  |
| digital resources into new creations |  |
| - Customizing content to suit the intended audience |  |
| Computational Thinking |  |
| - Identifying problems that can benefit from technology-assisted |  |
| methods such as sdata analysis, abstract models, and algorithmic |  |
| thinking ing exploring and finding solutions |  |
| - Coslecting (e.g. surveys) or identifying (e.g. big data) relevant data |  |
| sets and using digital tools to analyze and represent the data to |  |
| facilitate problem-solving and decision-making |  |
| - Understanding how technology can be used for repetitive |  |
| tasks (automation) and using algorithmic thinking to develop |  |
| a sequence of steps (e.g. coding) to create and test automated |  |
| solutions |  |



