# **Science Adventures with the**









# Sciences Adventures with the Thunderbolt Kids

Grade 5

by Siyavula and the Shuttleworth Foundation

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#### **ATTRIBUTION**

The Thunderbolt Kids characters and graphical stories in this book were developed as part of the Kususa project (www.kusasa.org), initiated and funded by the Shuttleworth Foundation (www.shuttleworthfoundation.org/). This project aimed to develop analytical and creative thinking in Grade 4,5 and 6 learners through the use of character role models, experiments, simple computer modelling and carefully-sequenced lesson plans. The characters and stories were used with the permission of the Shuttleworth Foundation in these science adventures and the related Grade 4-6 Natural Science and Technology workbooks.

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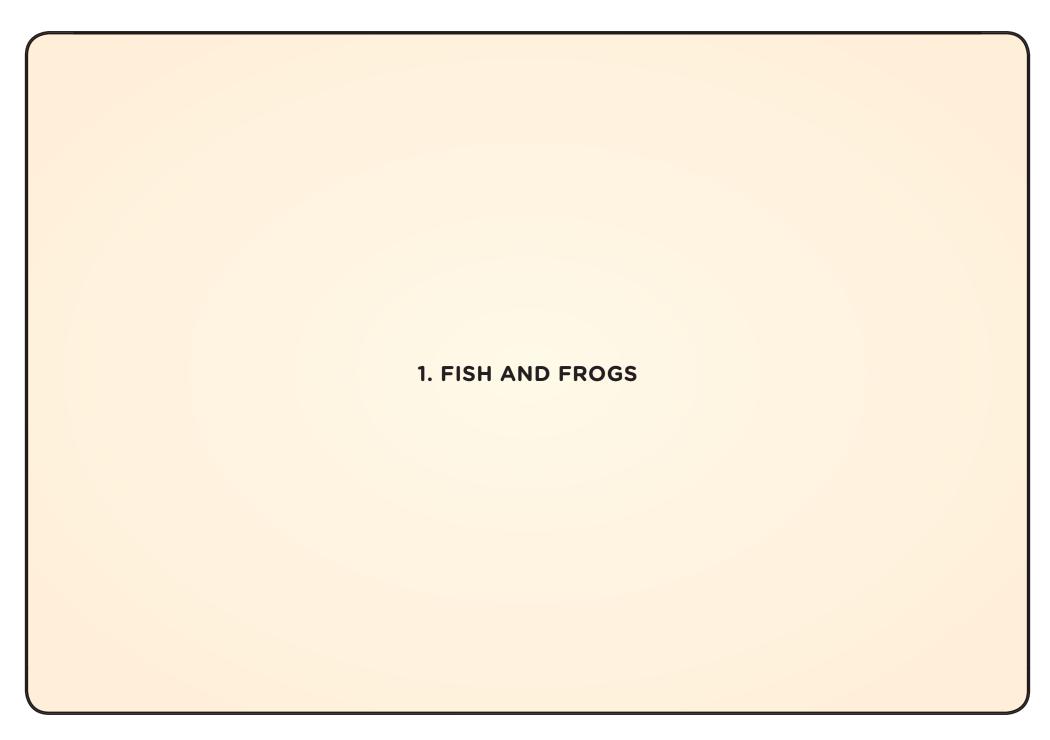
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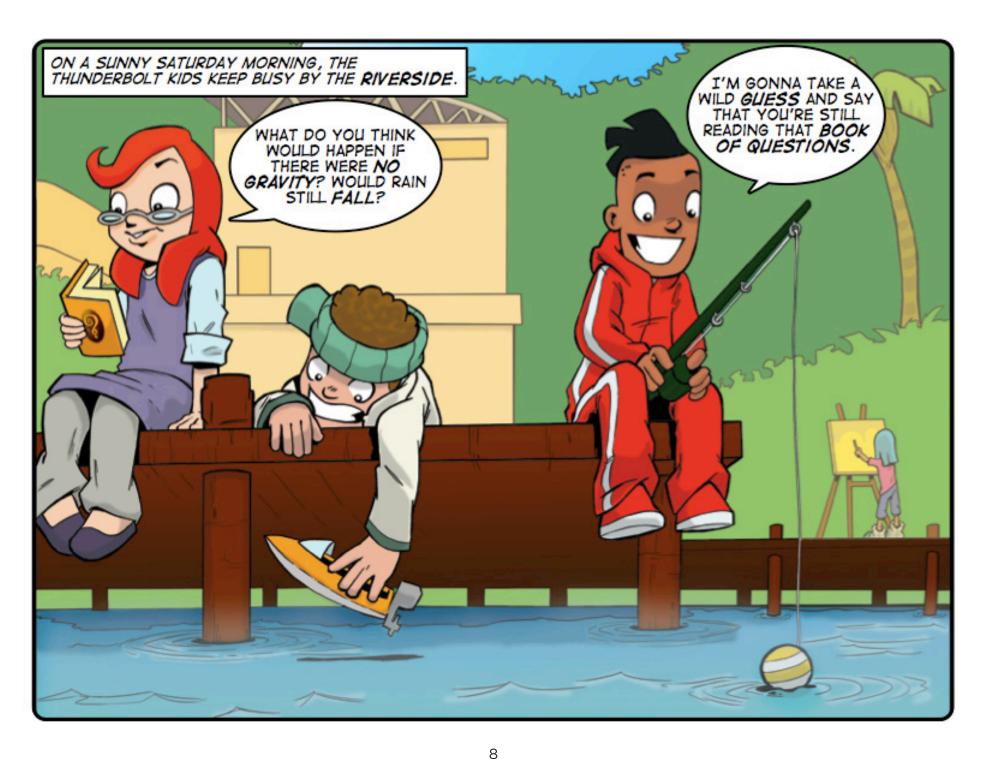
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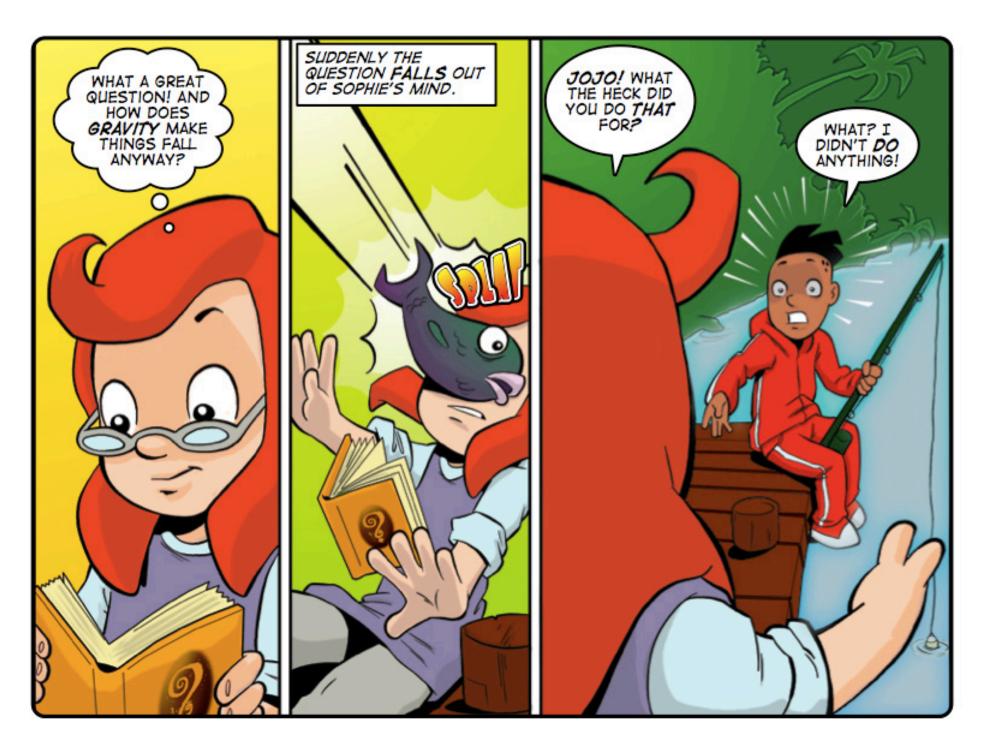
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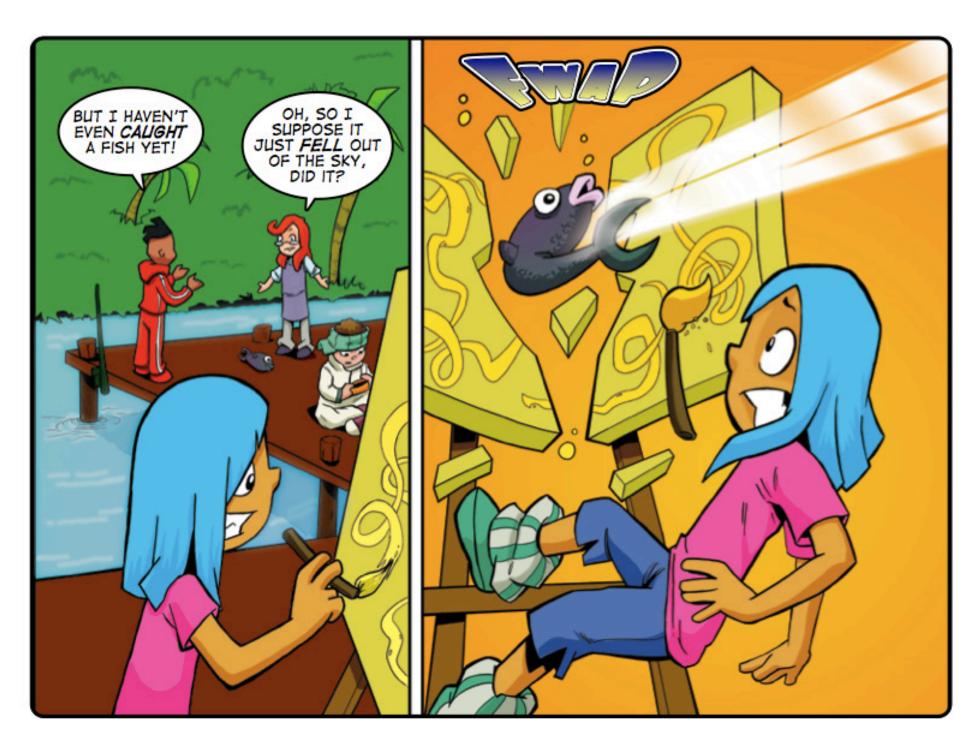
## **TABLE OF CONTENTS**

1.	Fish and Frogs	.7
2.	The Forbidden Beach	.28
3.	The Game of Death	.49
4.	The Balloon Bet	.70
5.	Philosophers Stone	.91
6.	Diamond Deception	.112
7.	The Volcano	.133
8.	Snakes Alive	.154



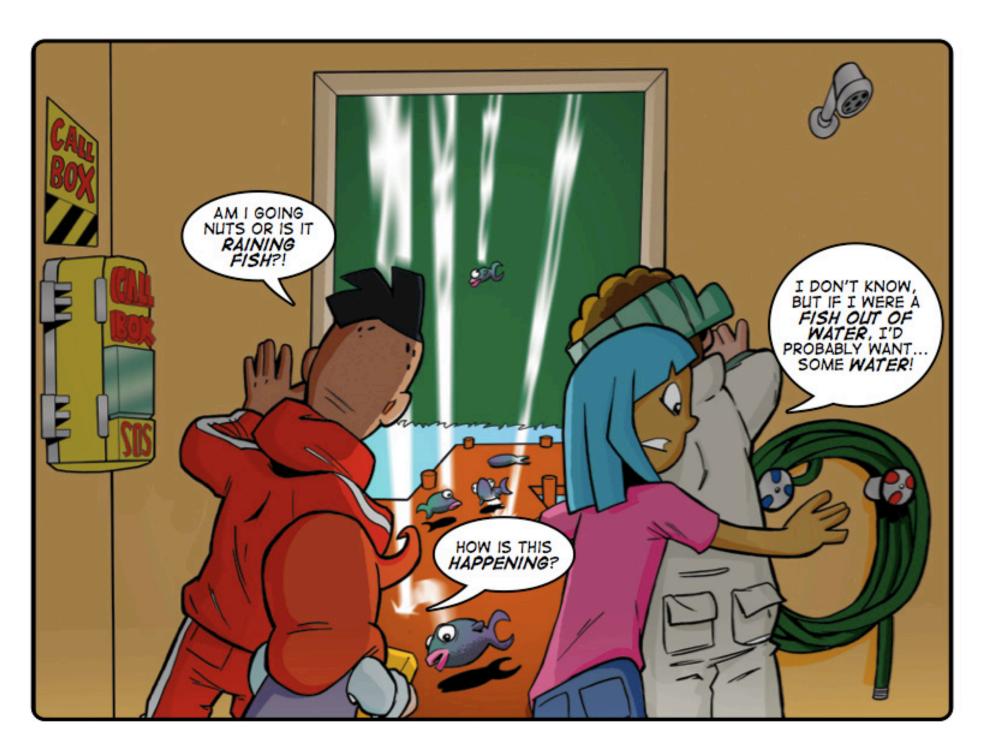




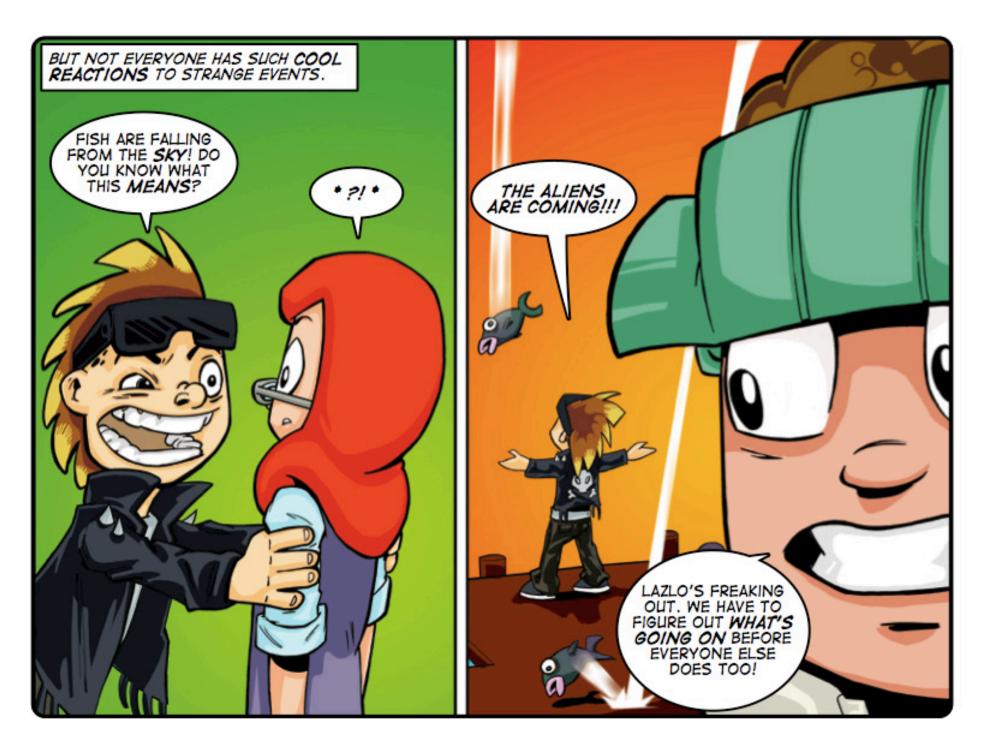


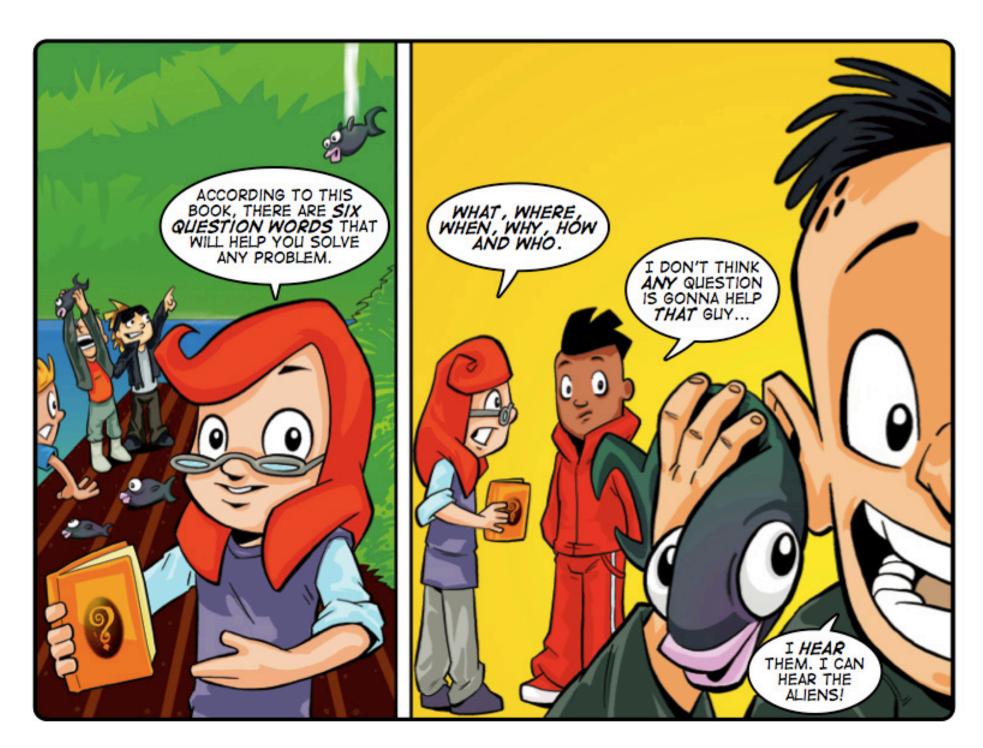




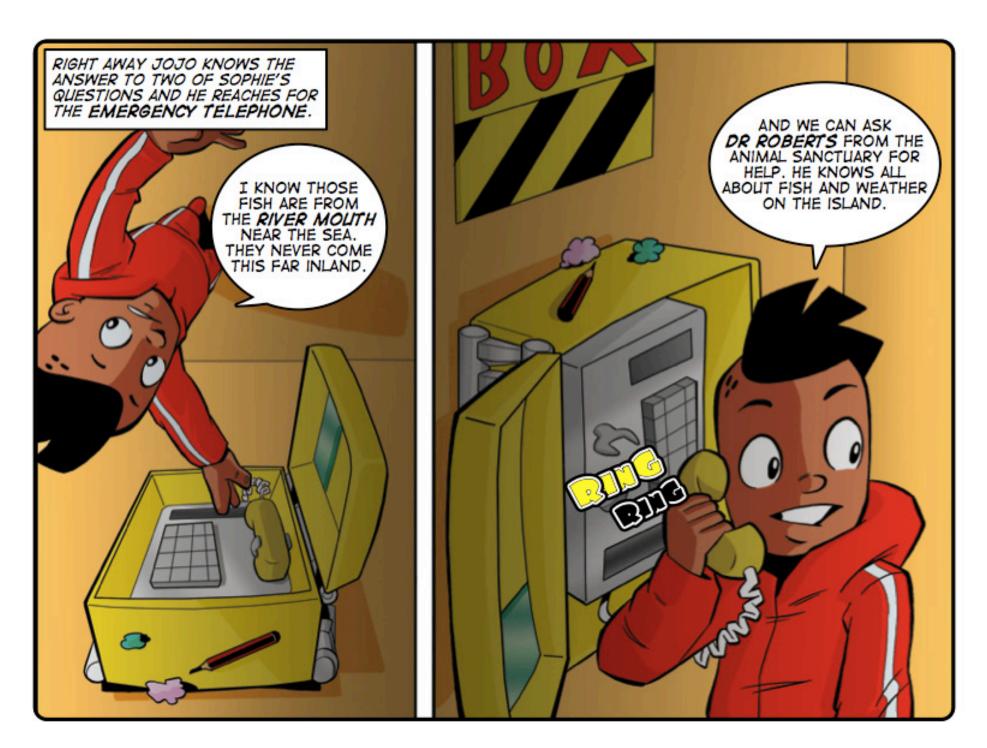








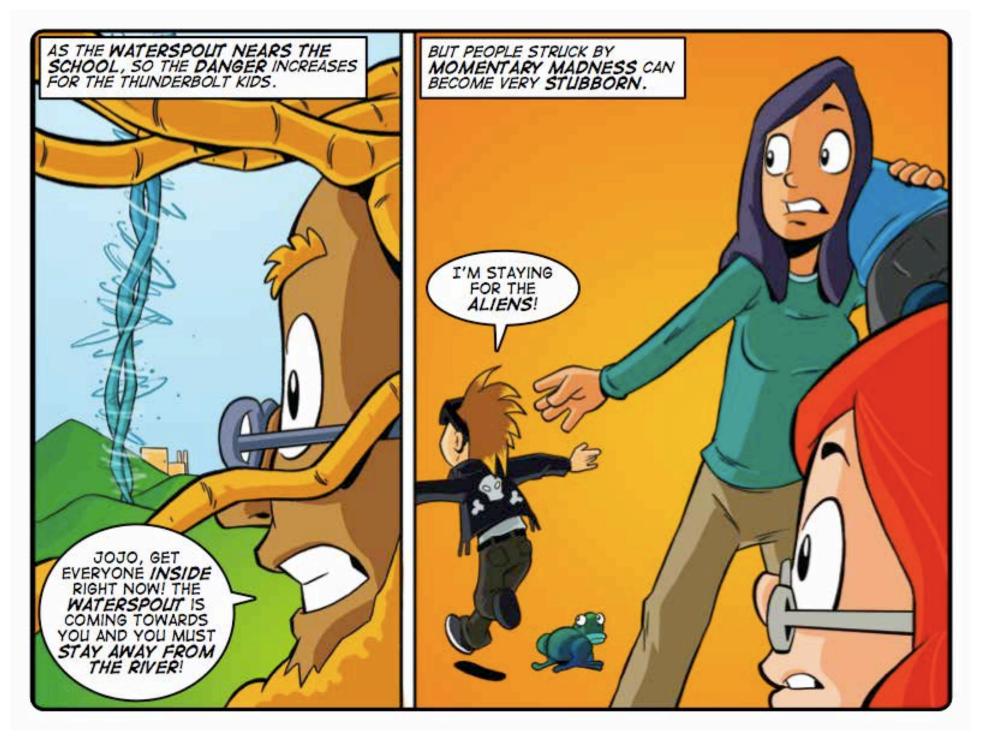






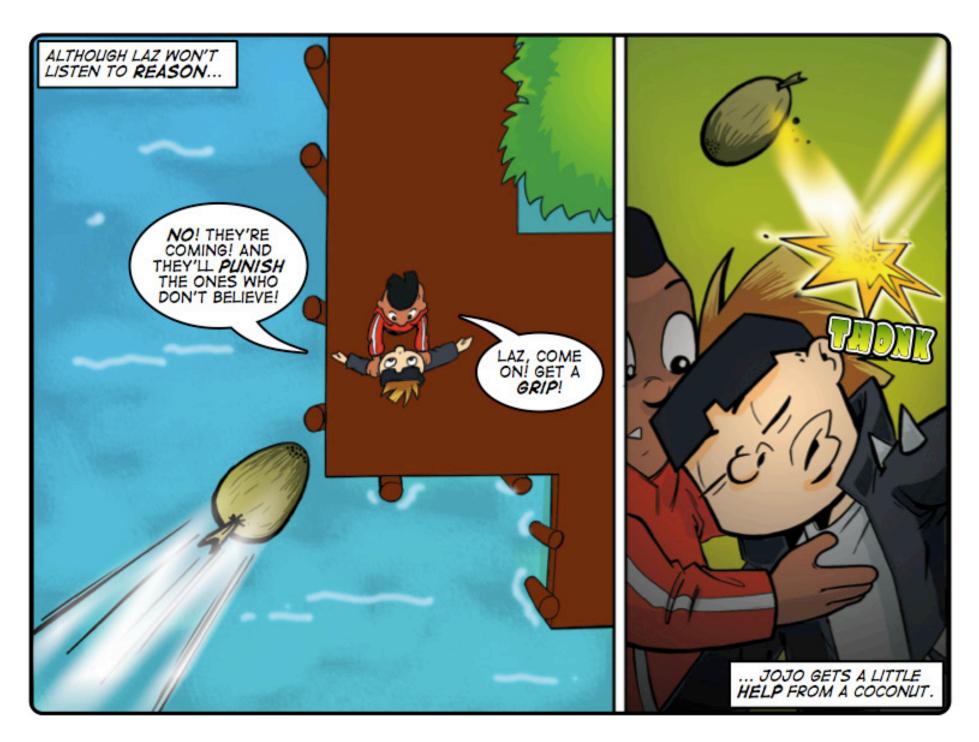


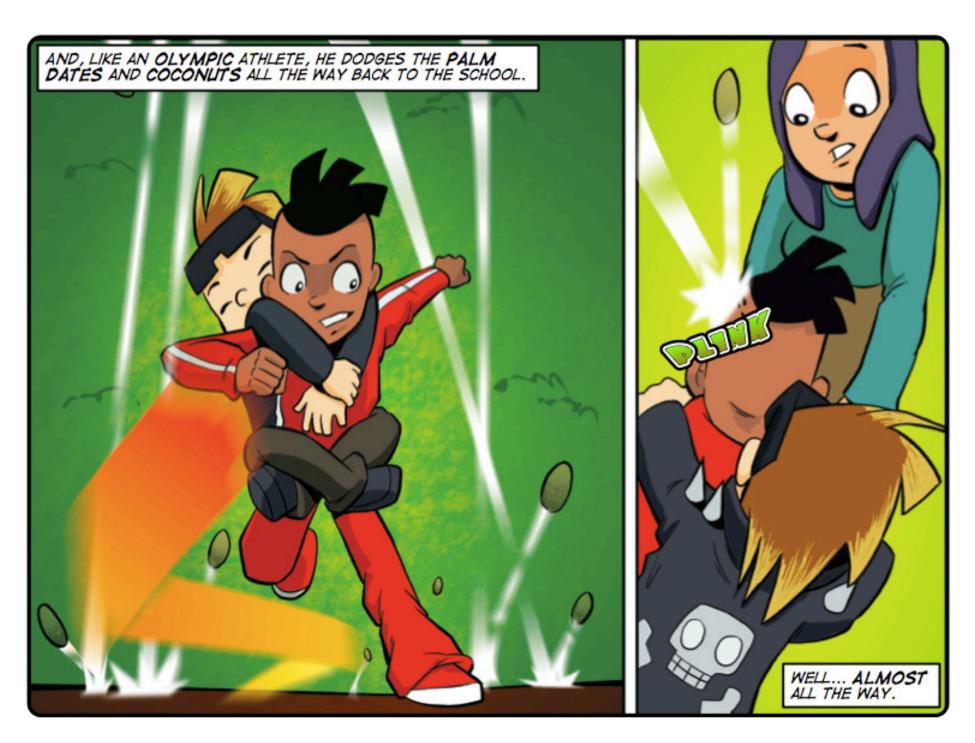


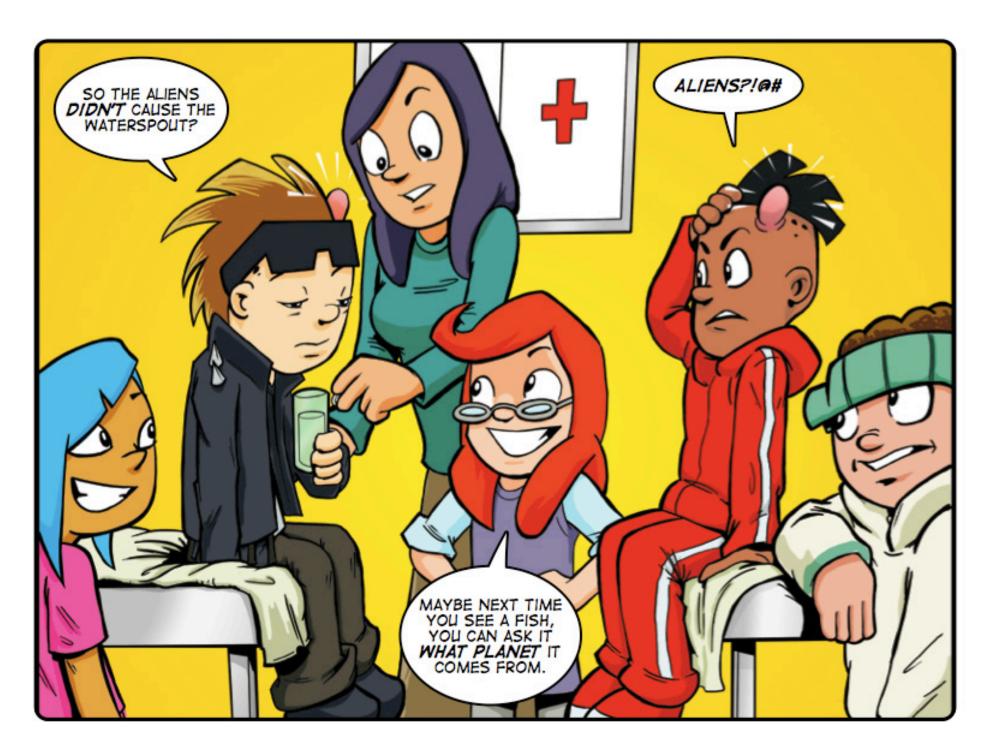


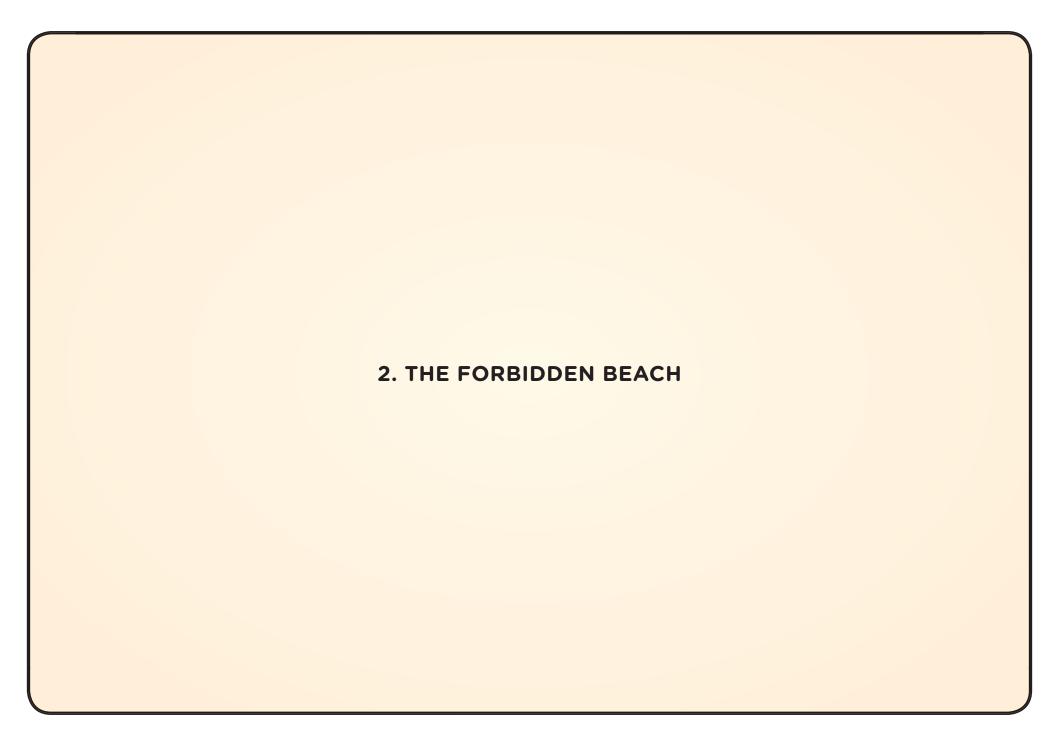






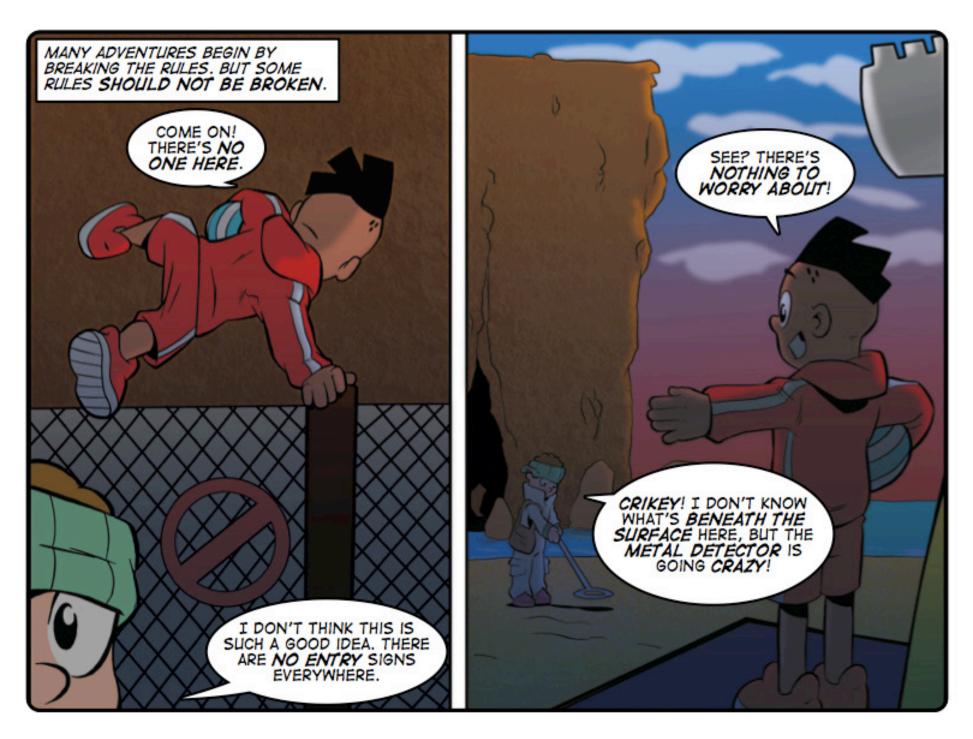


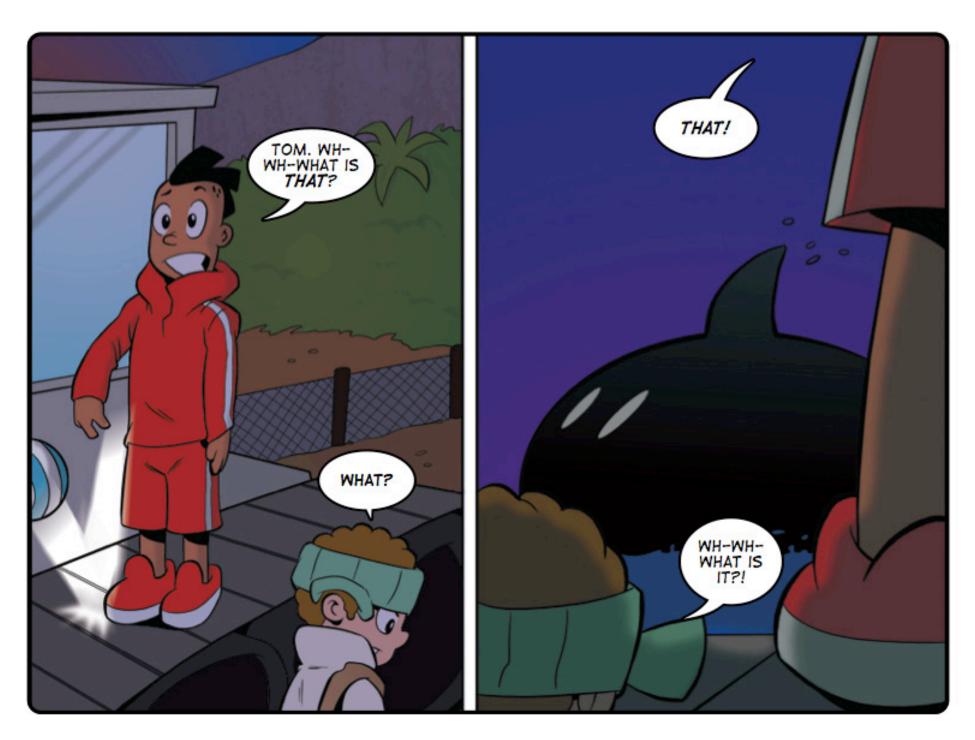


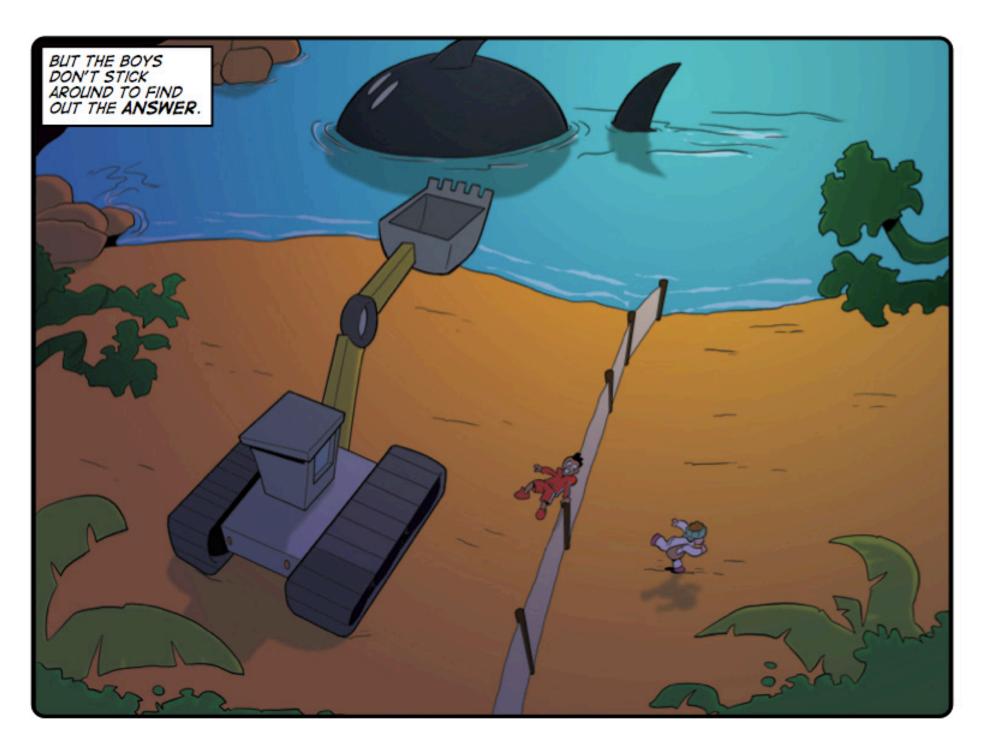


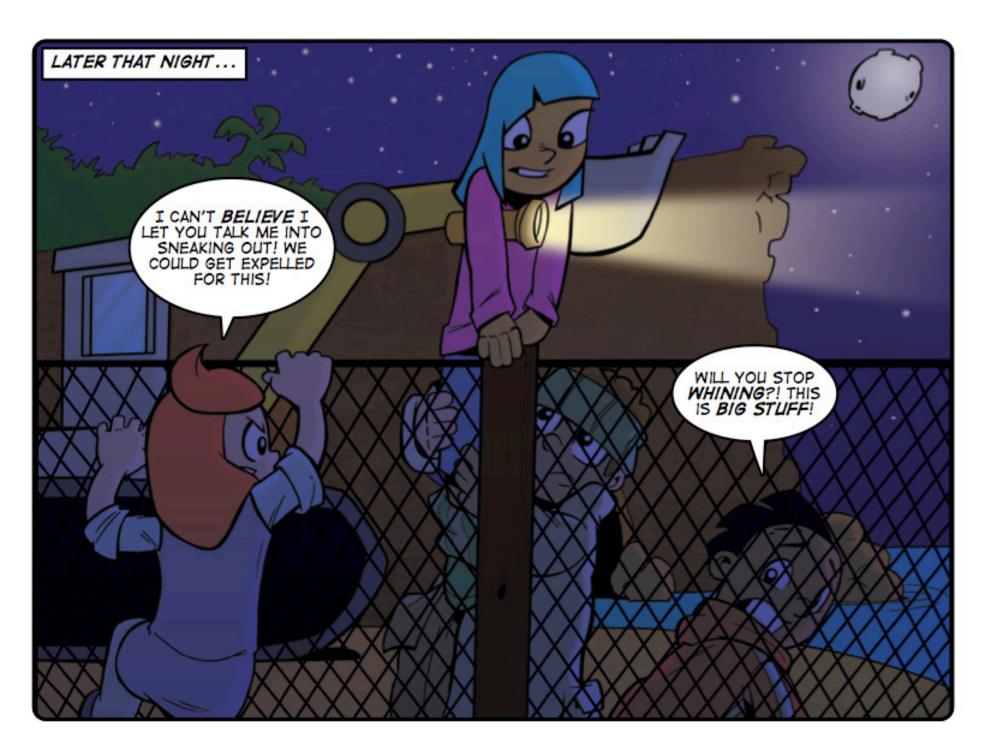


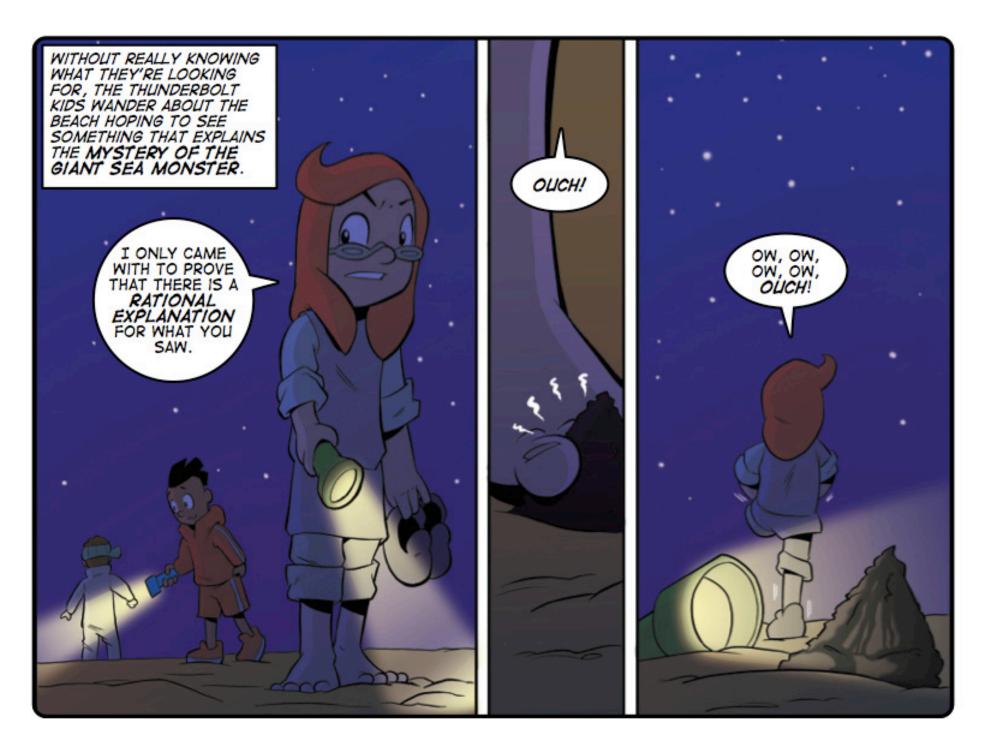


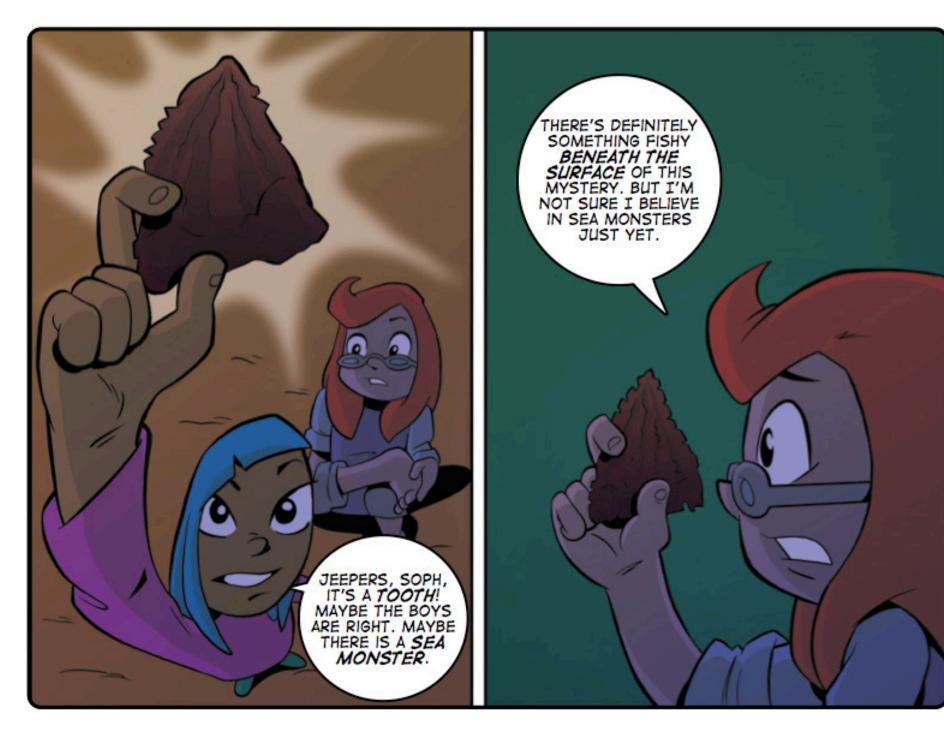


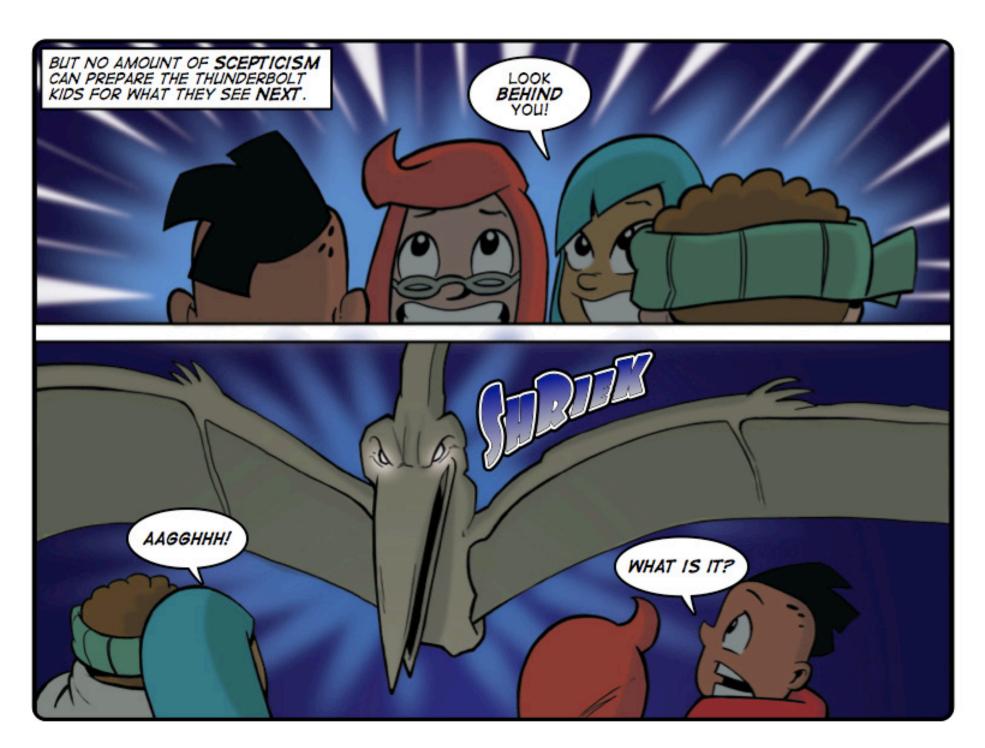






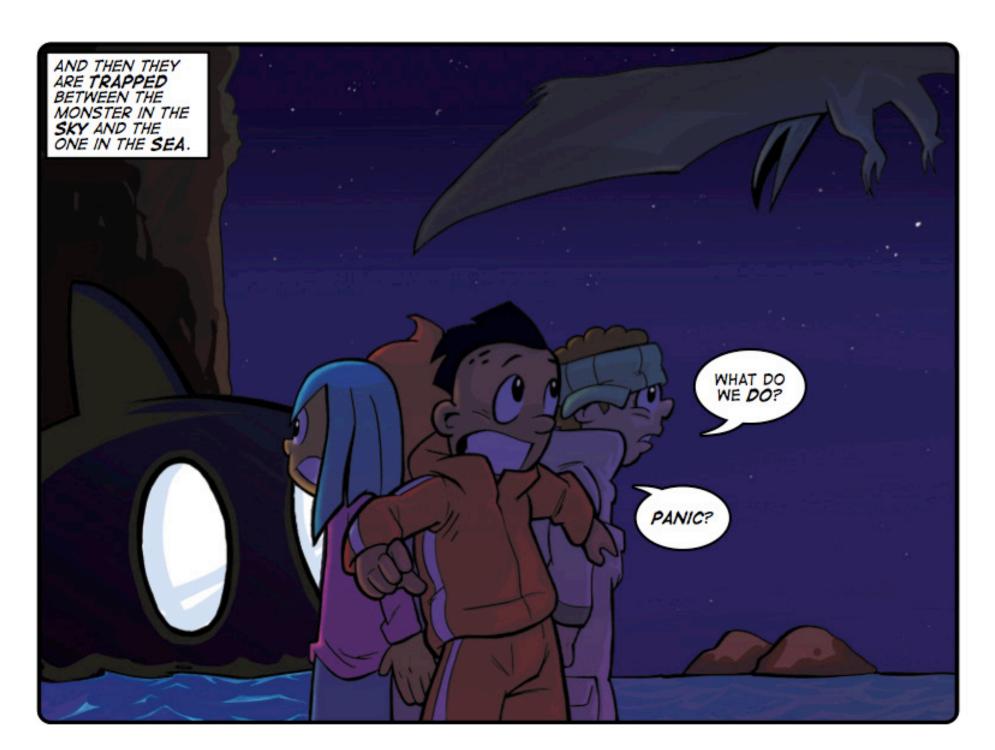






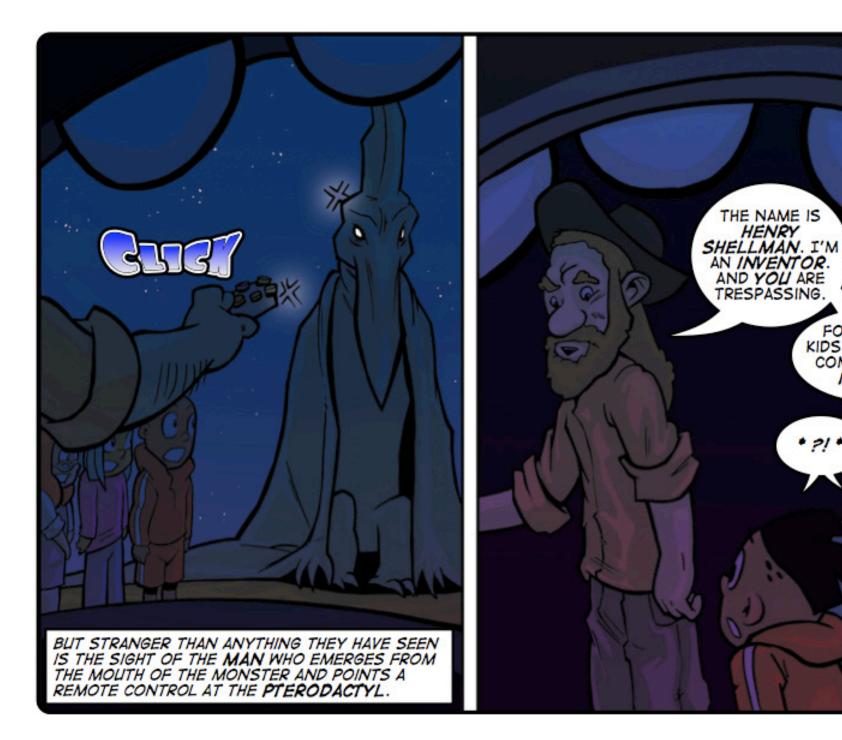






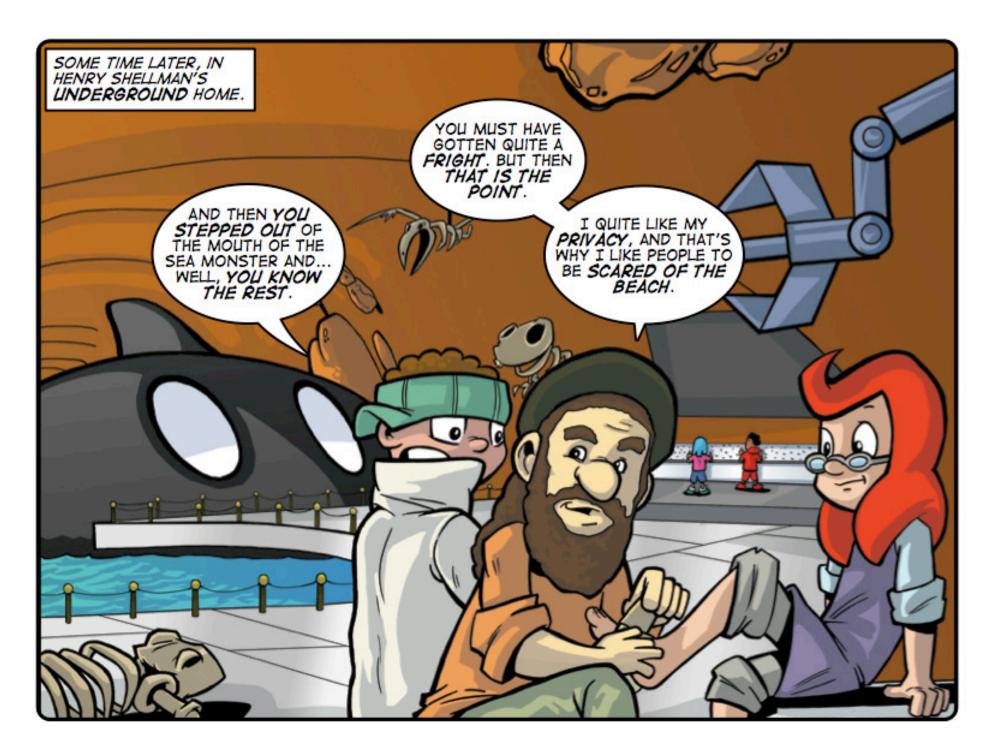






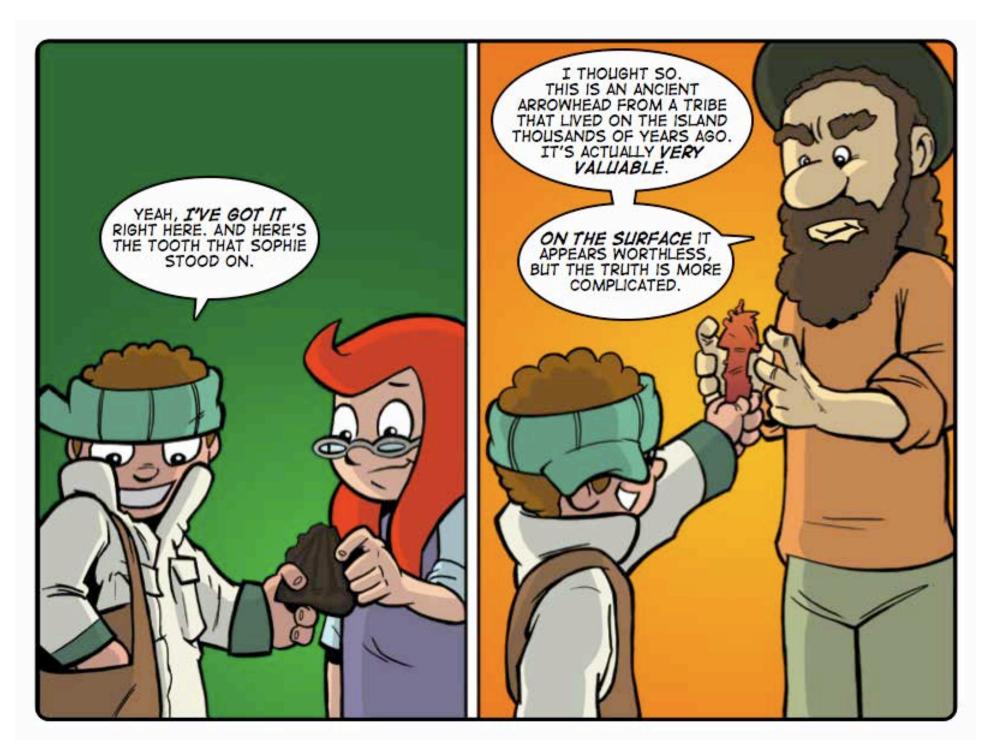
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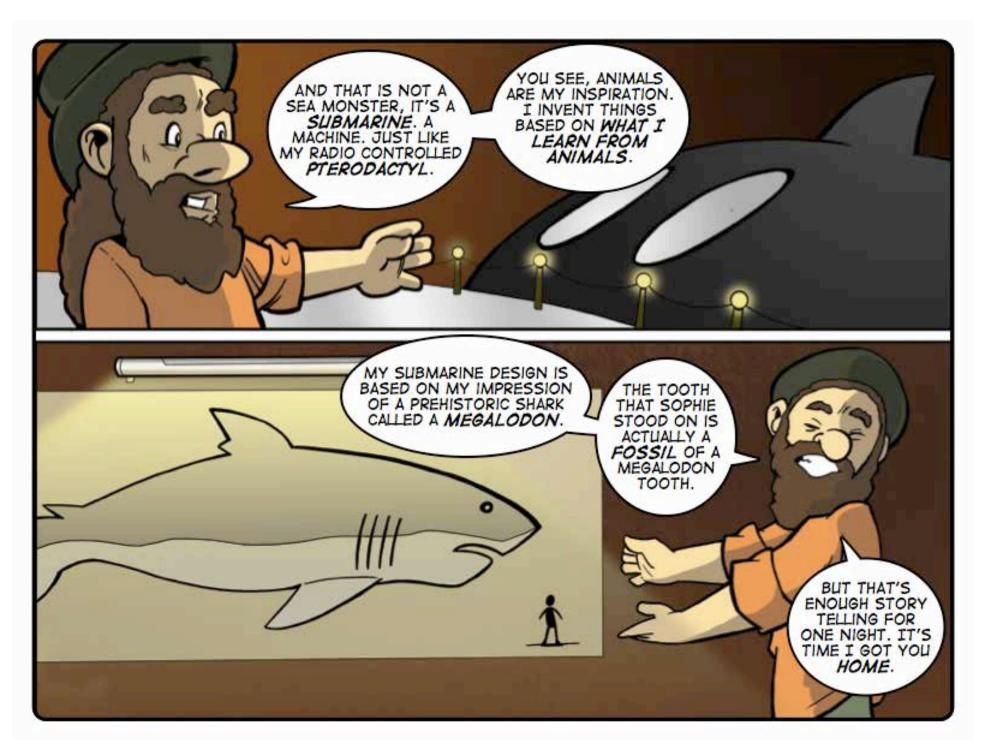
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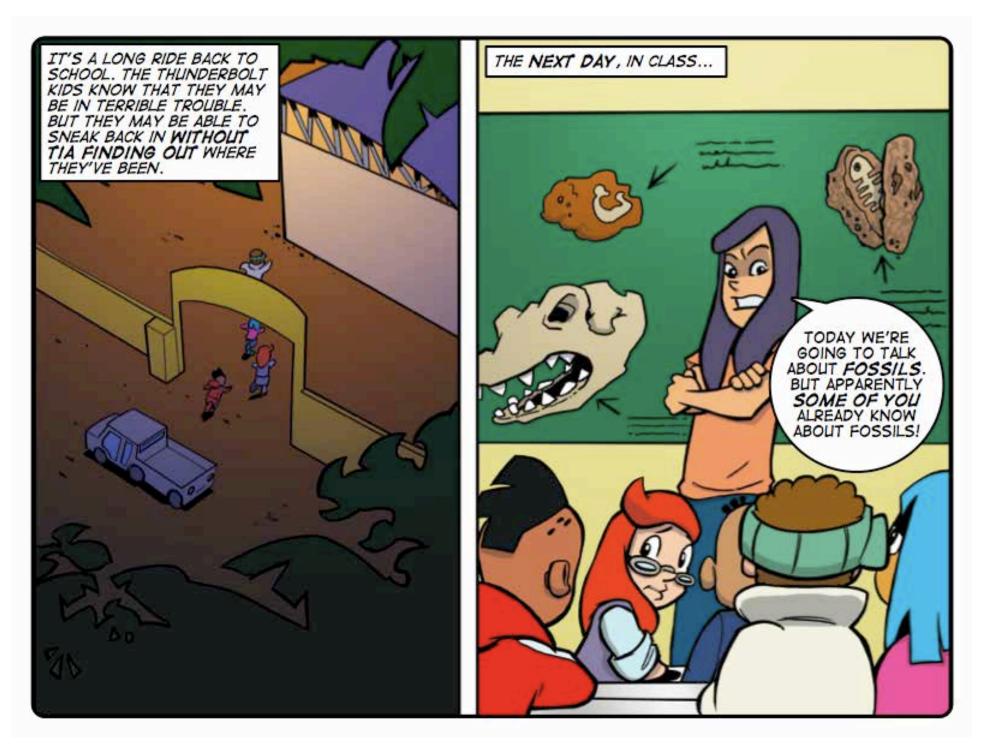




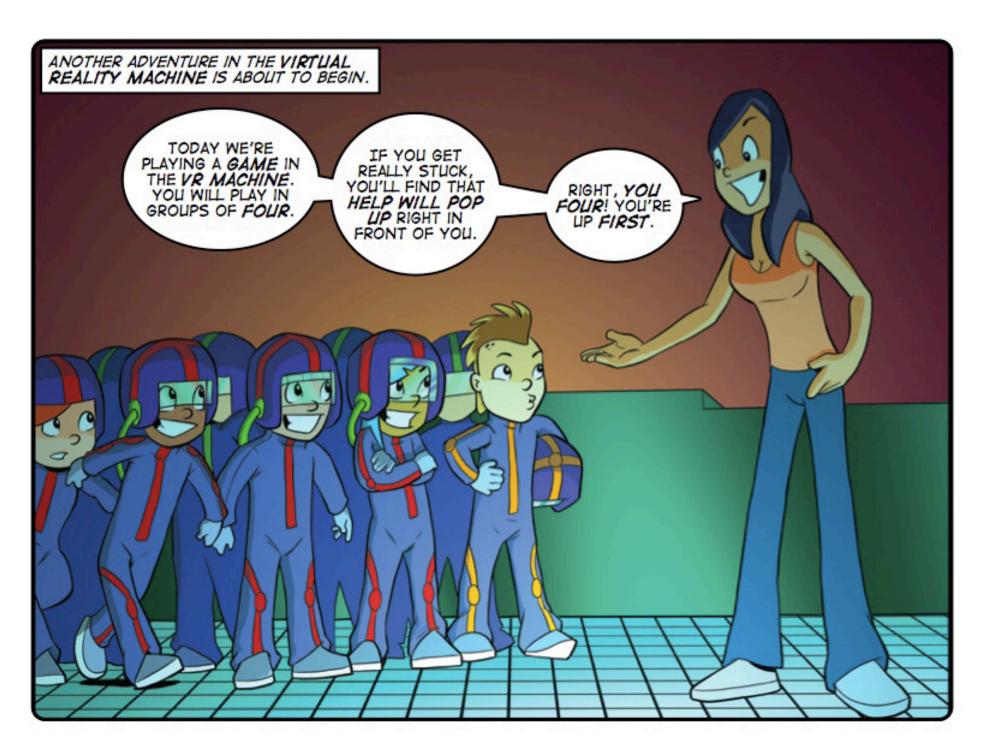


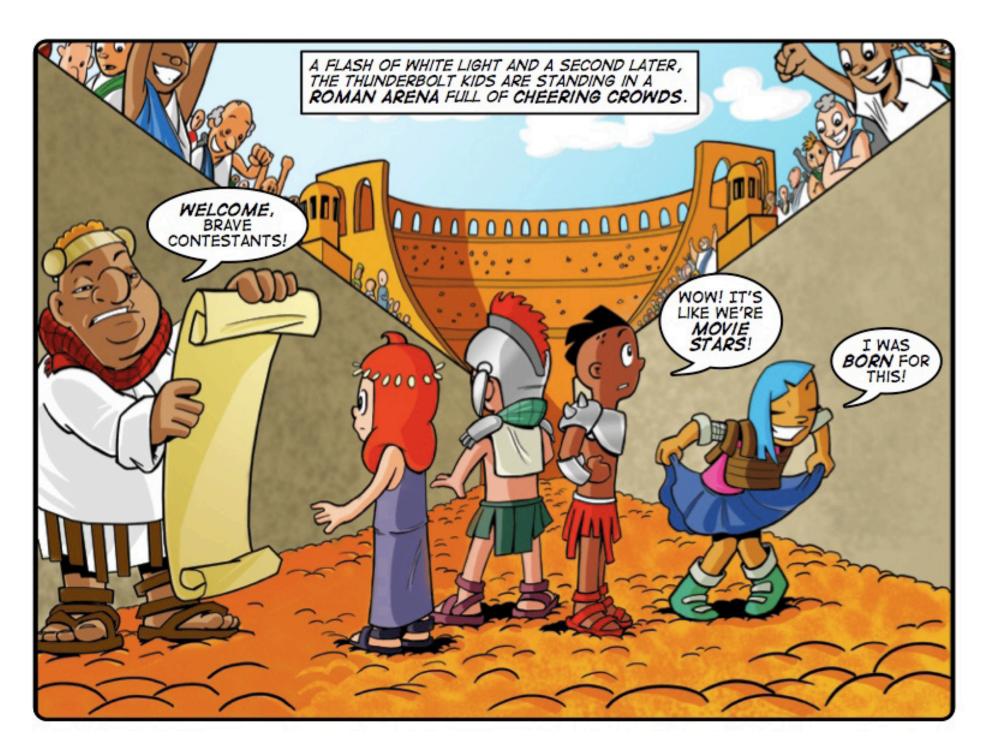




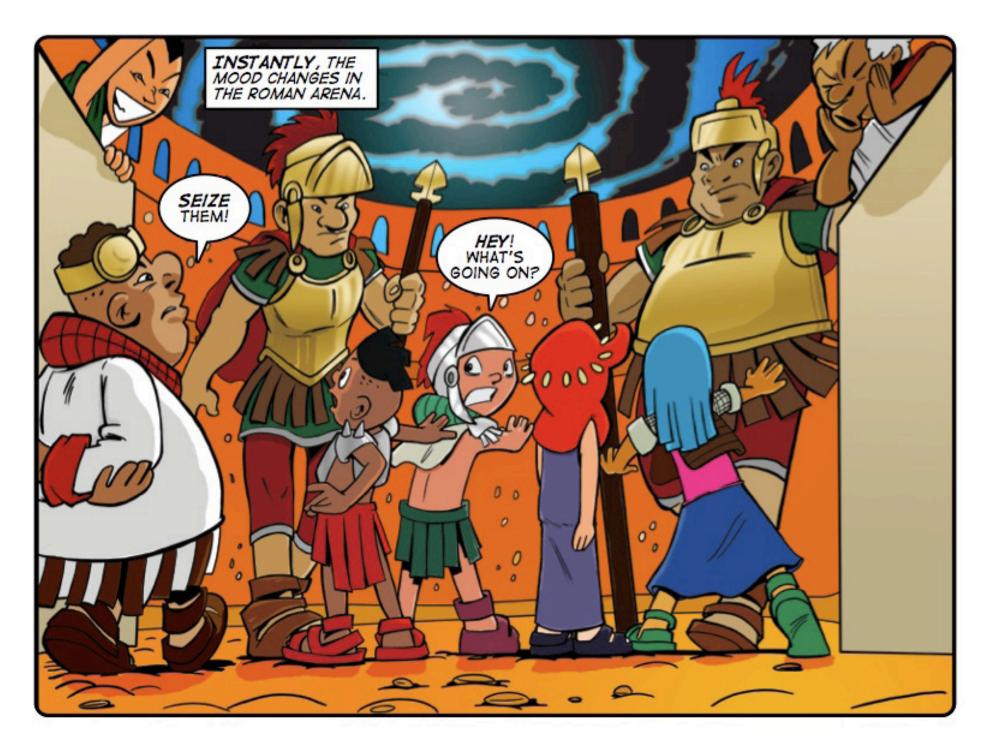












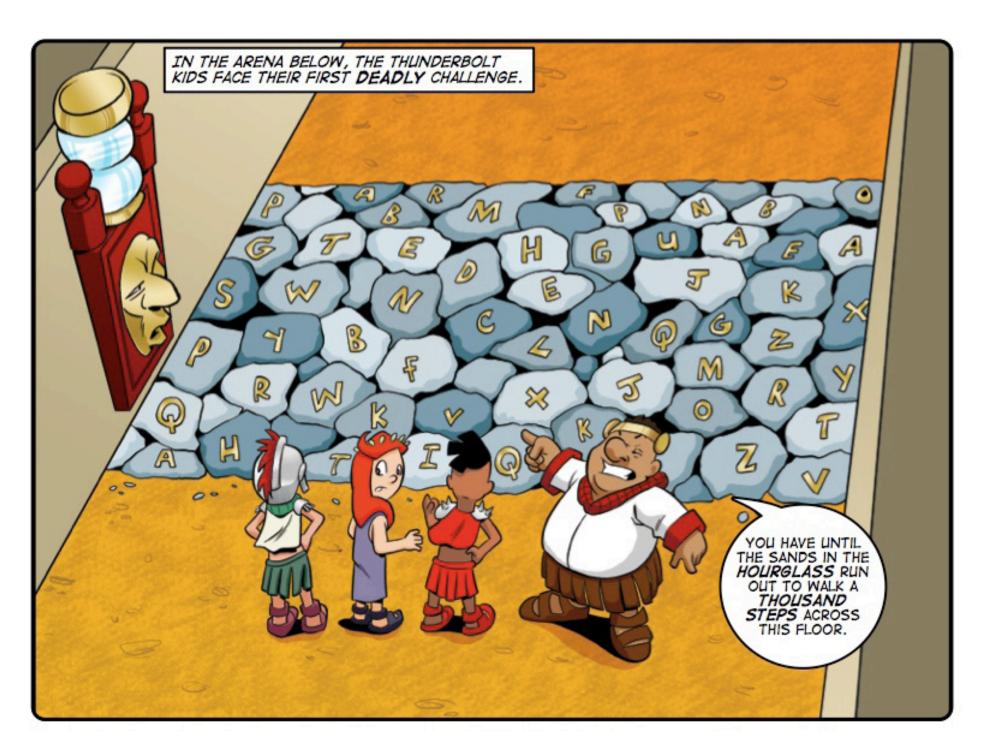


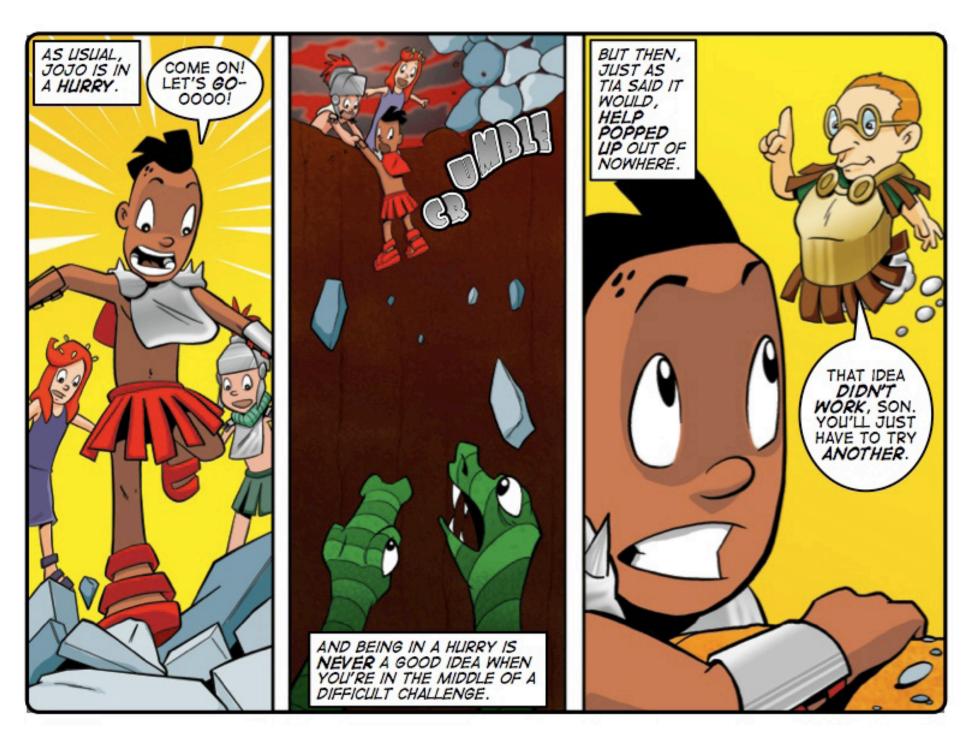


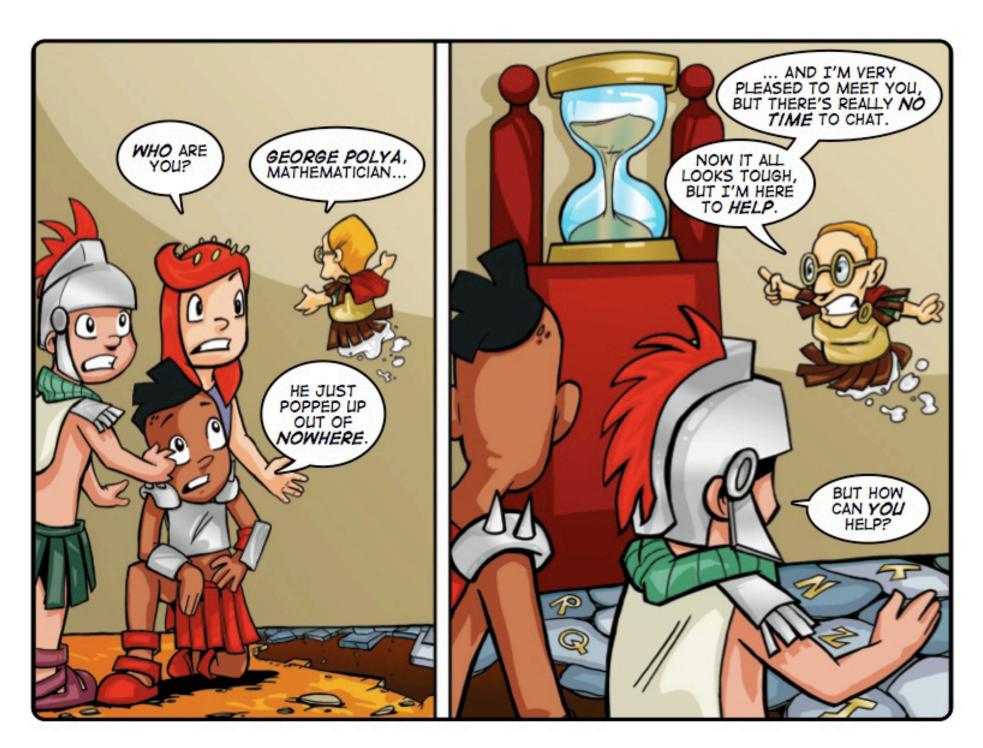


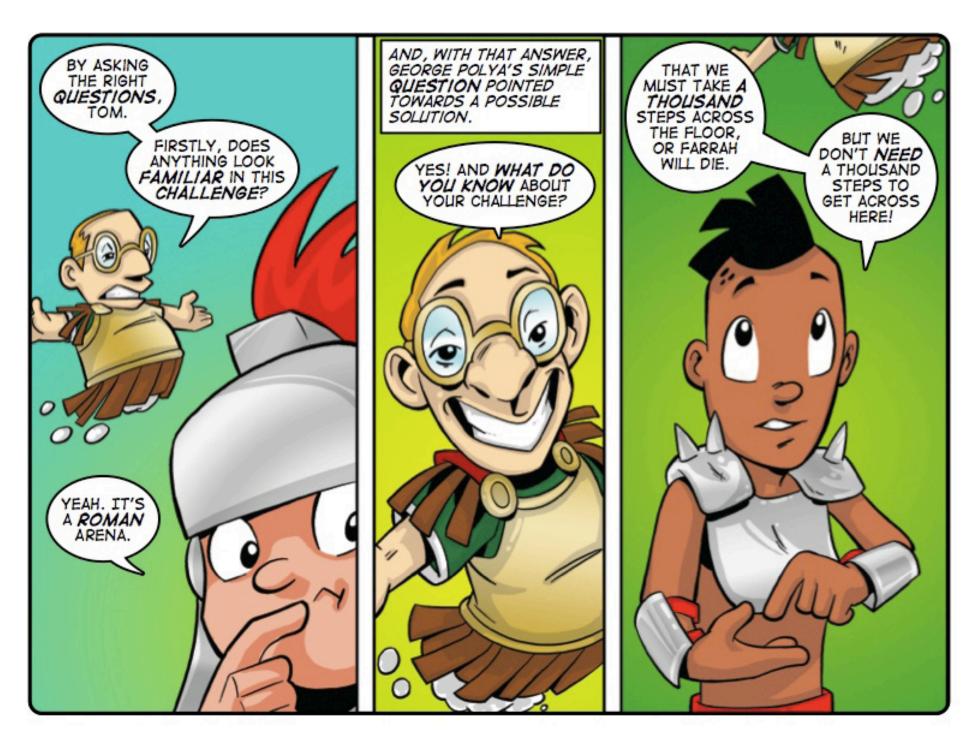


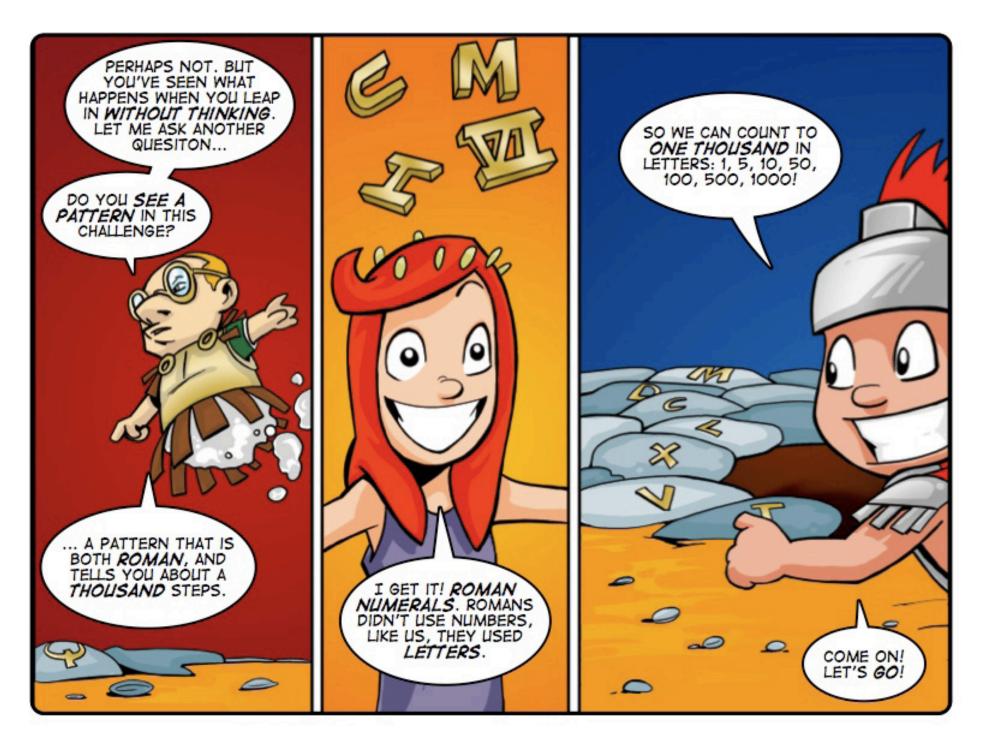


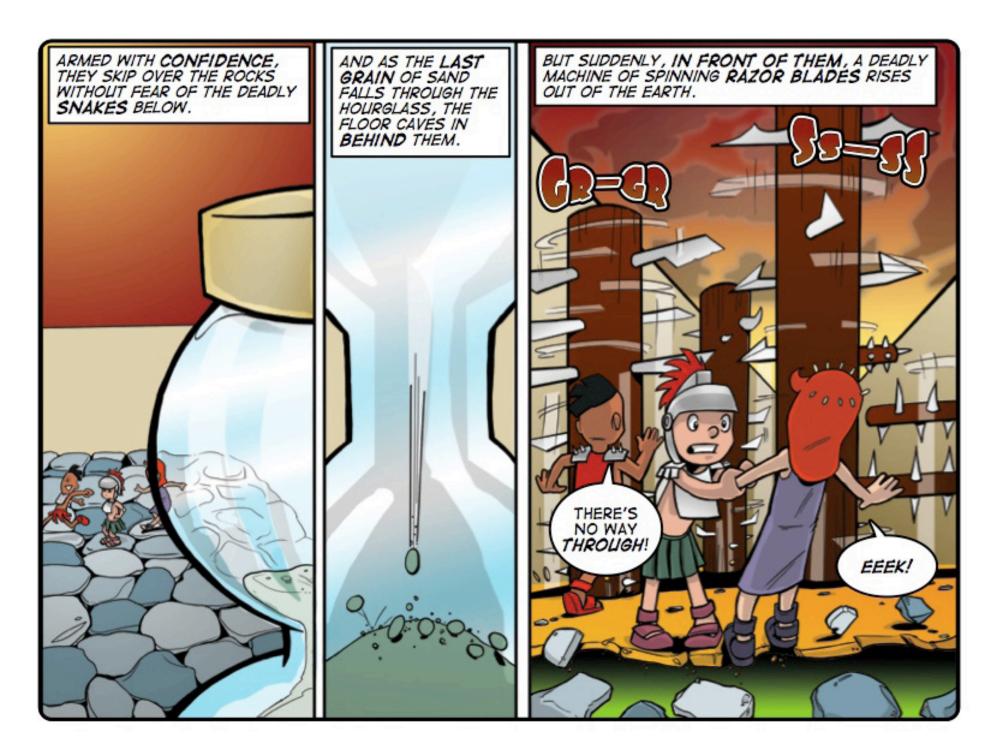


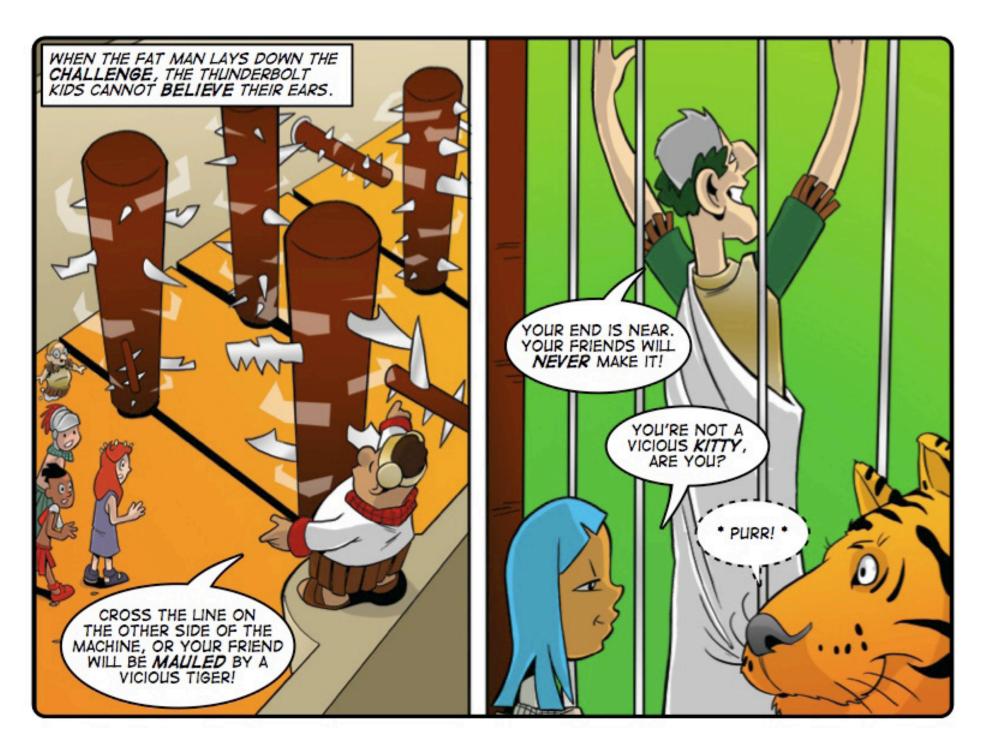






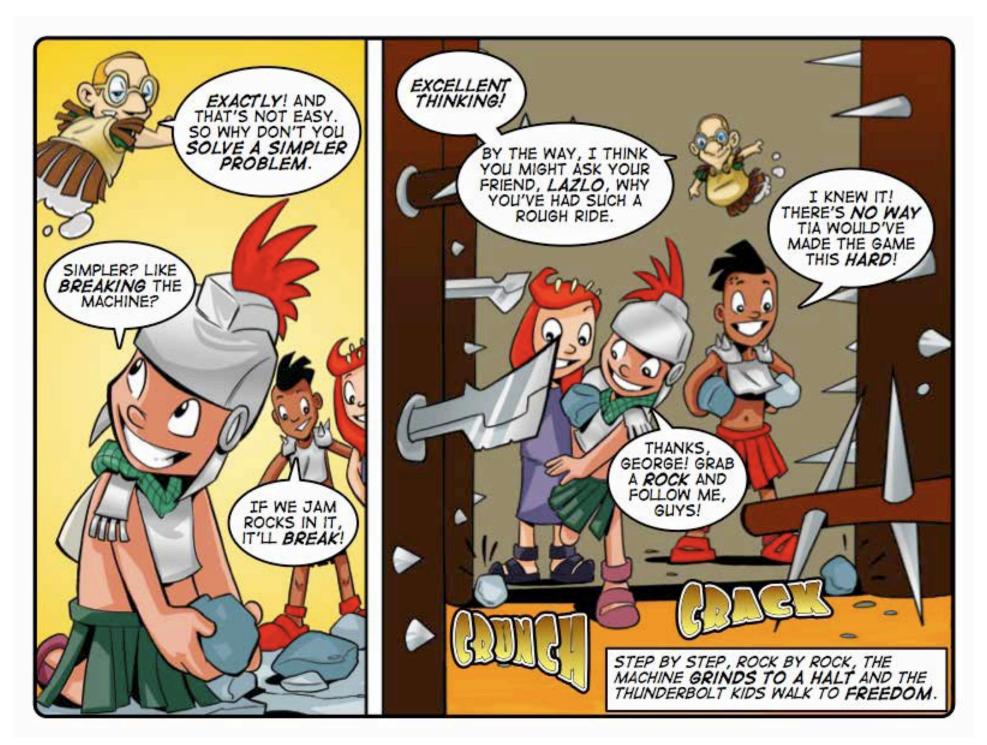




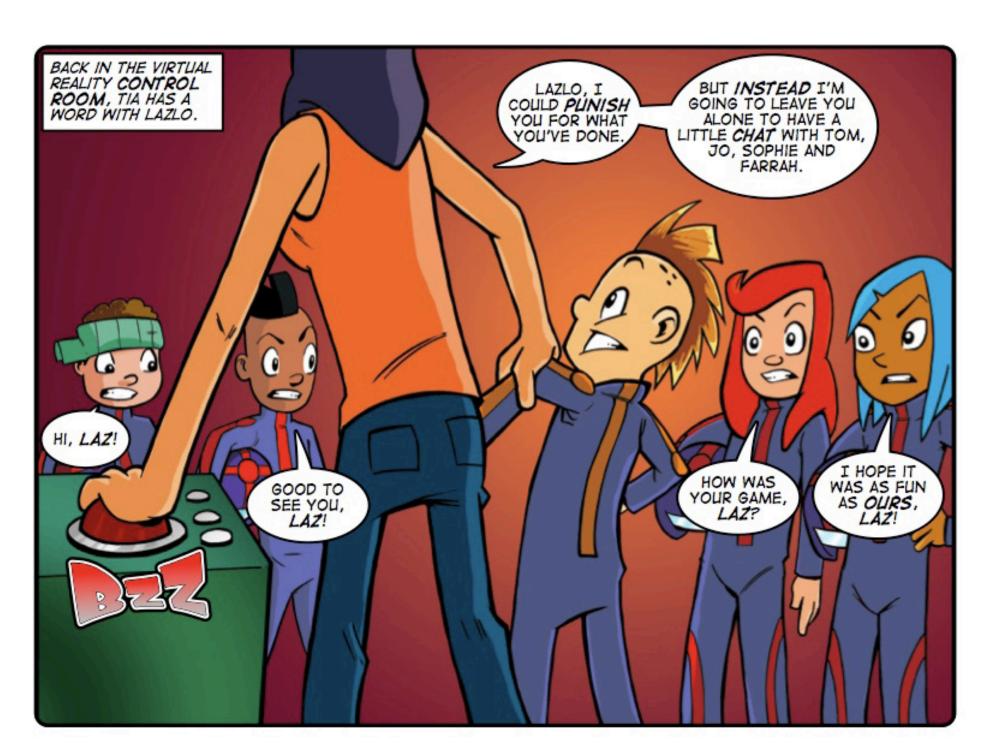




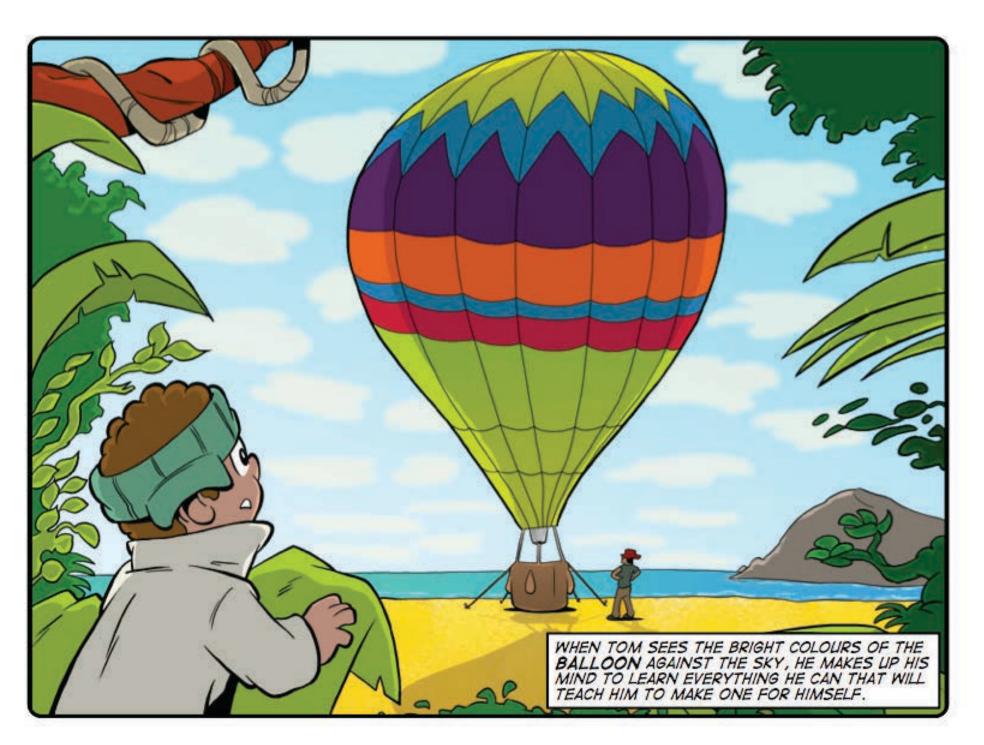








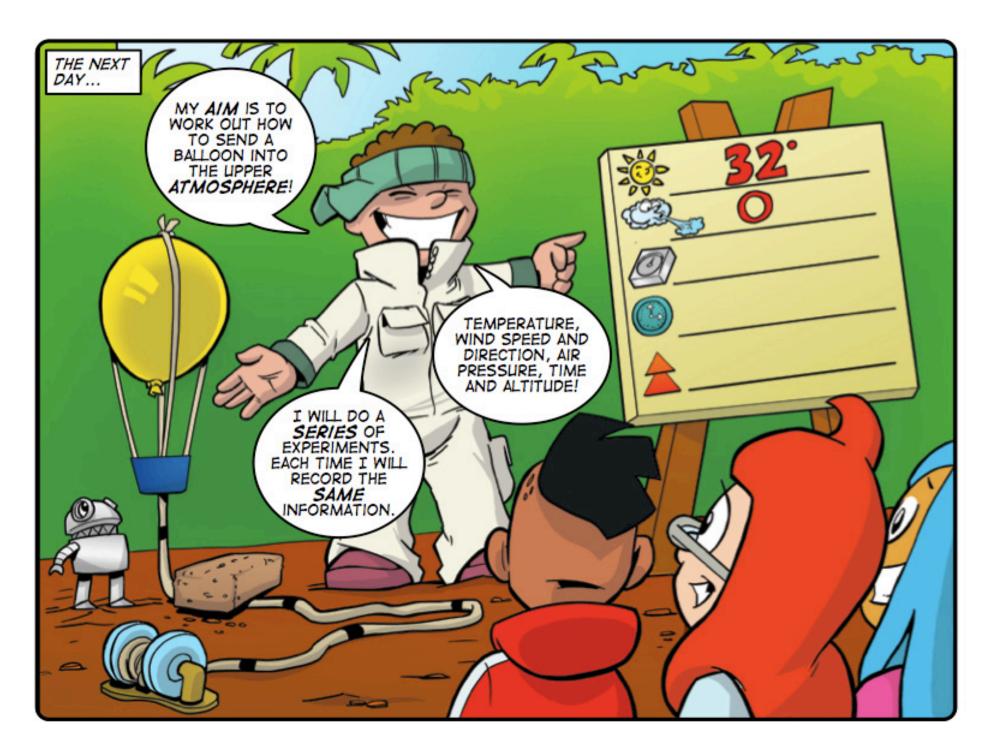


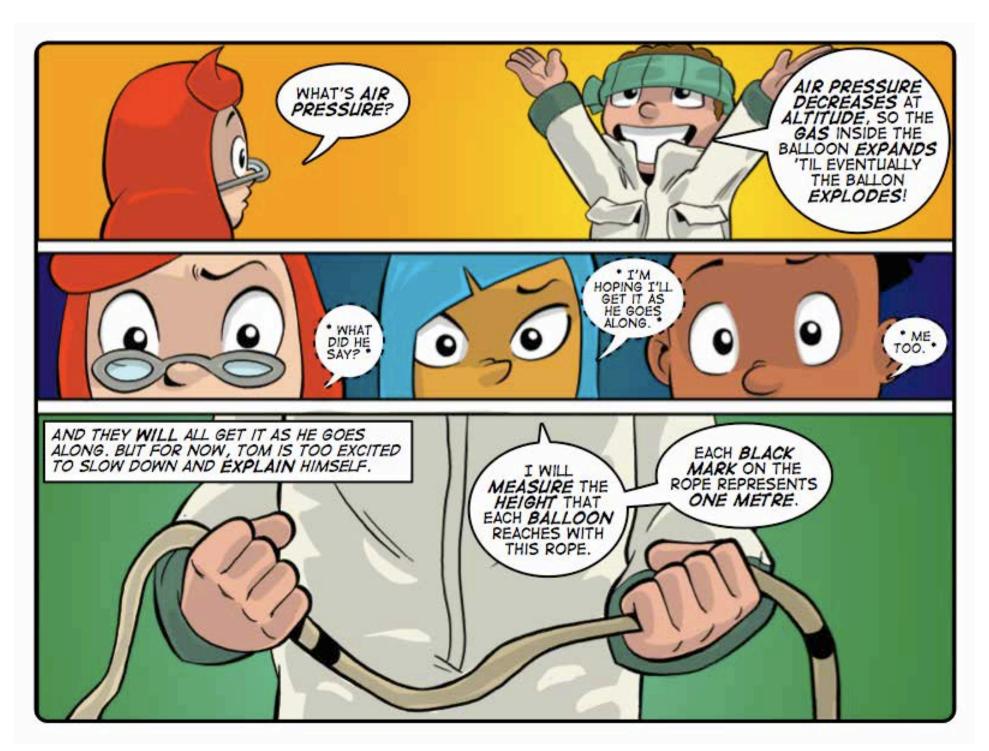


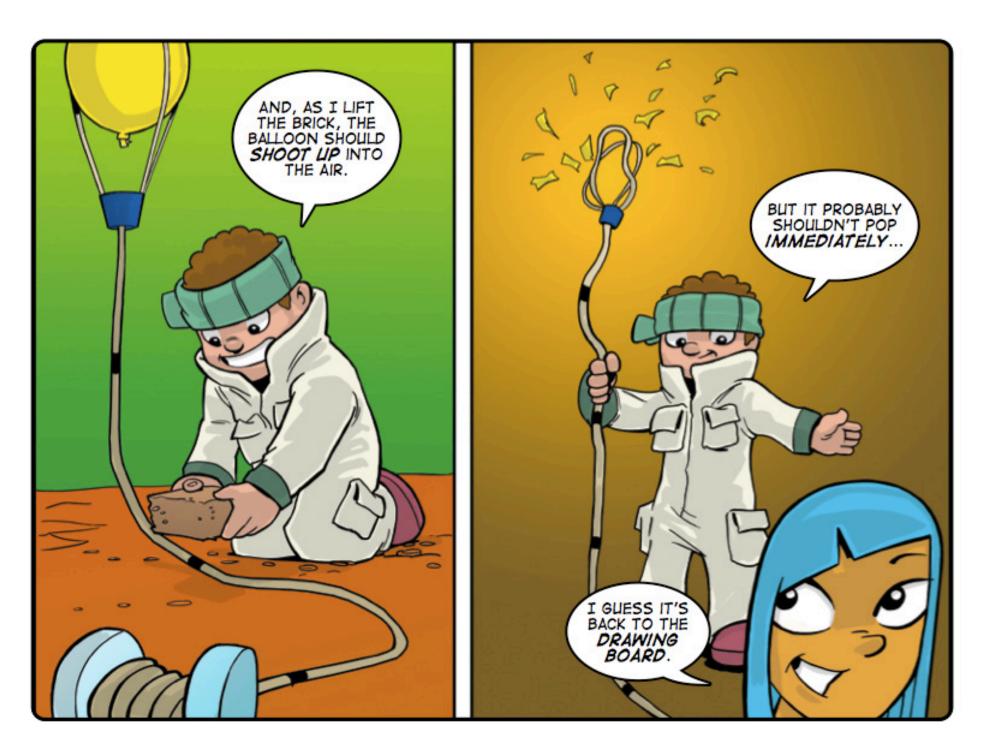


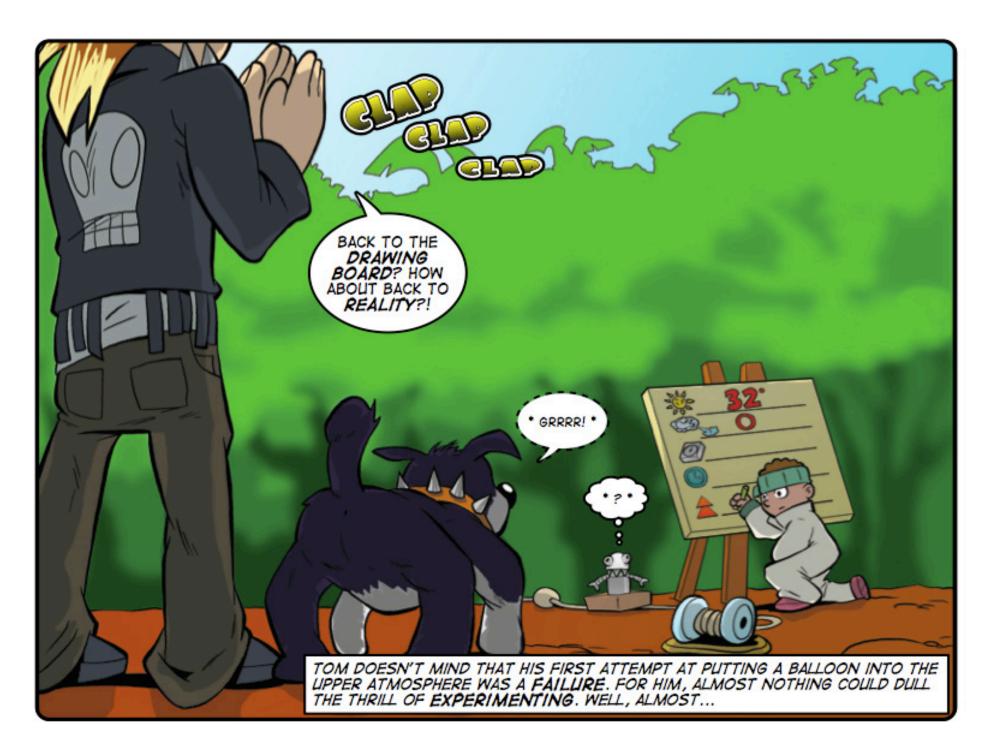


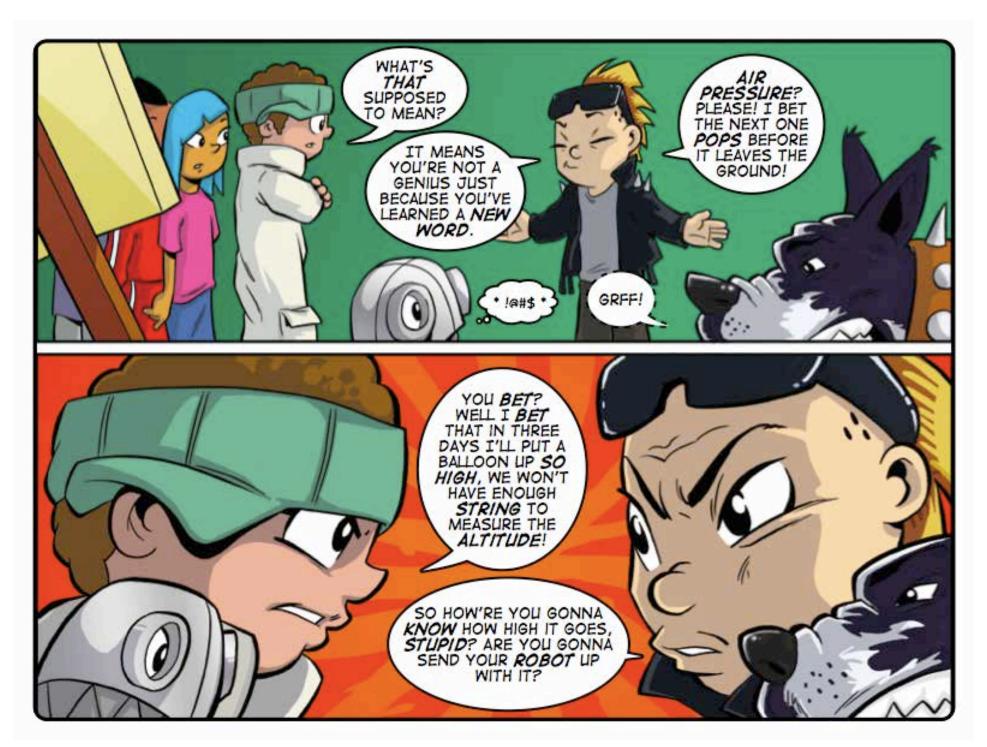


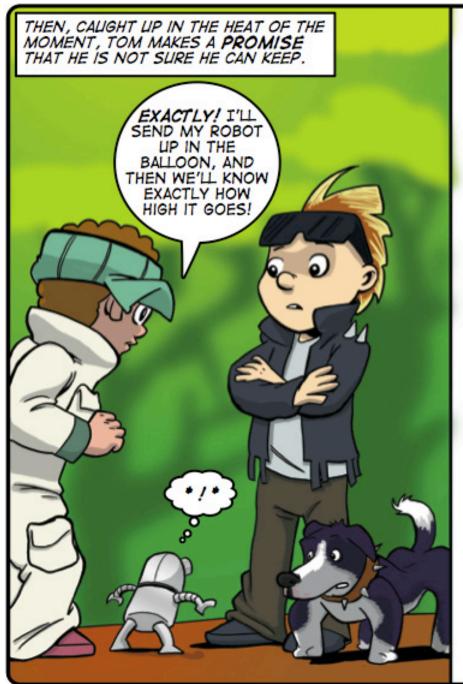




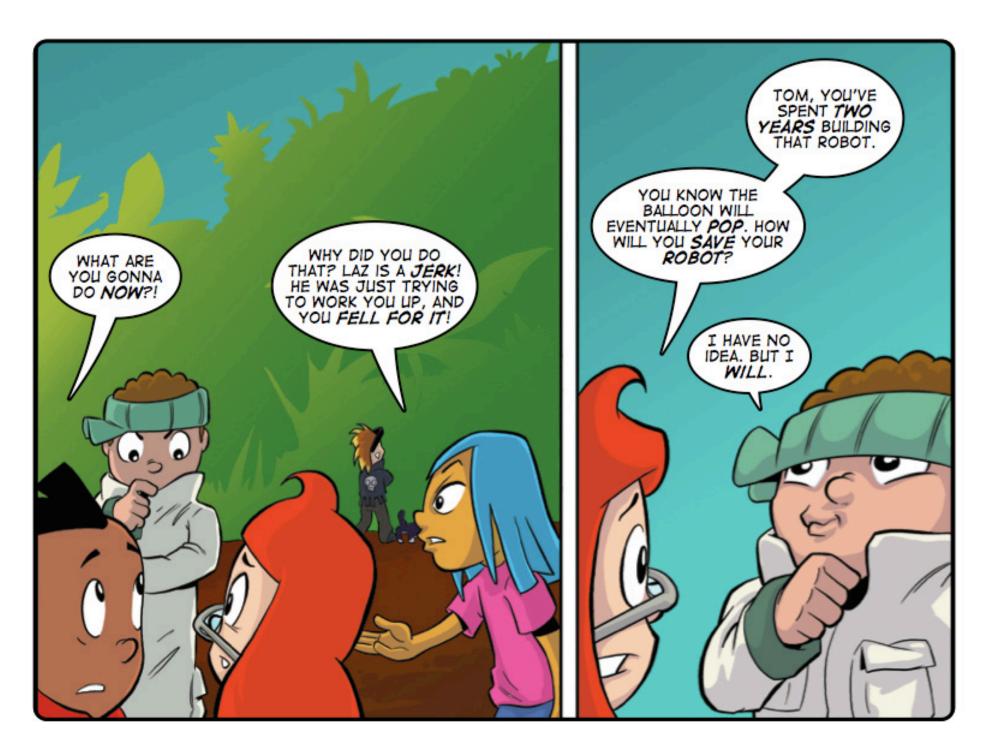


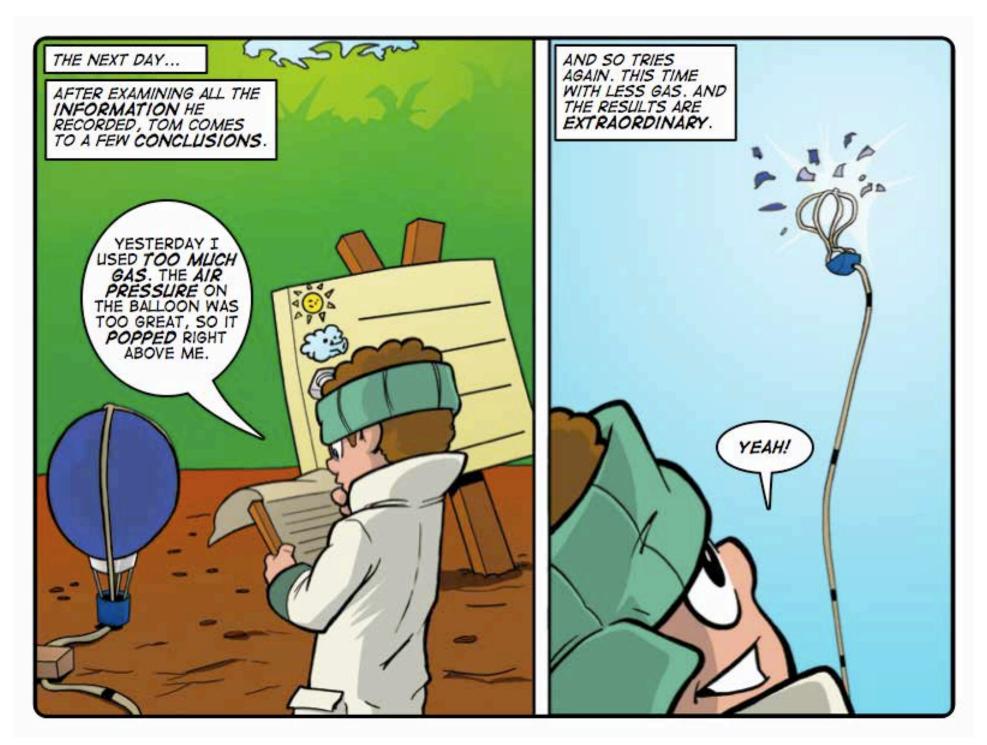


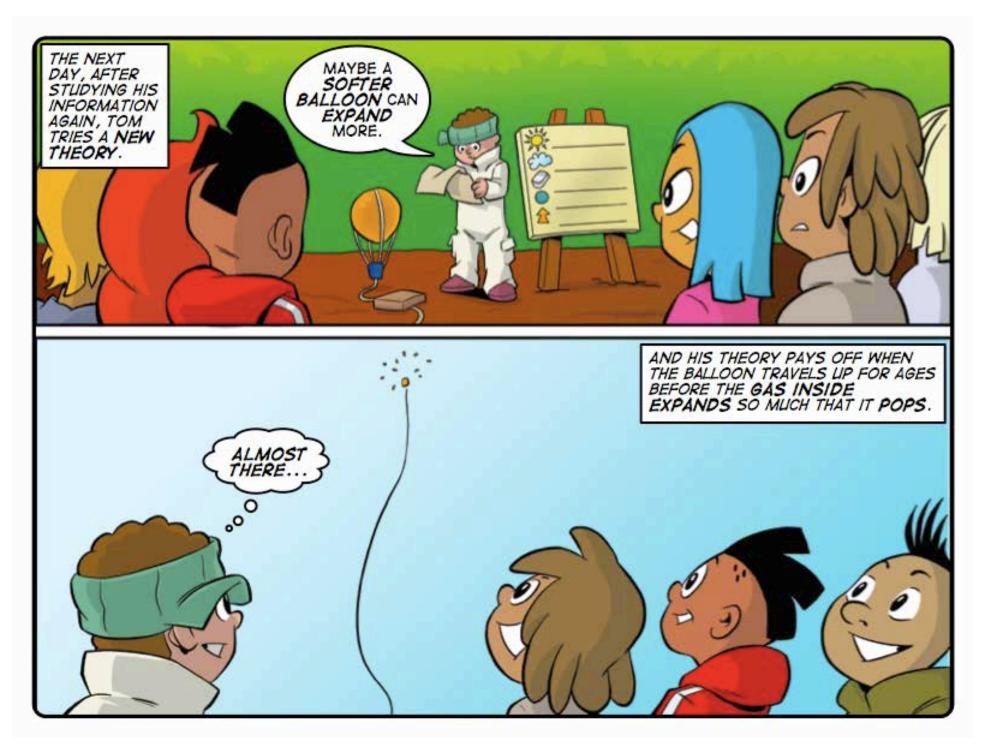


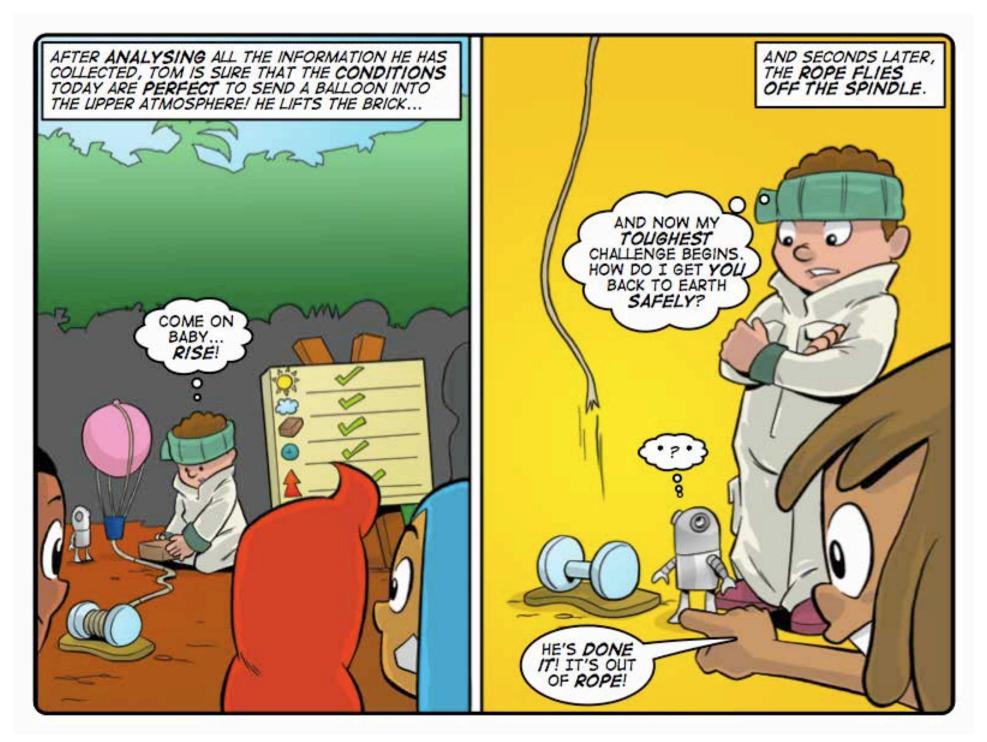


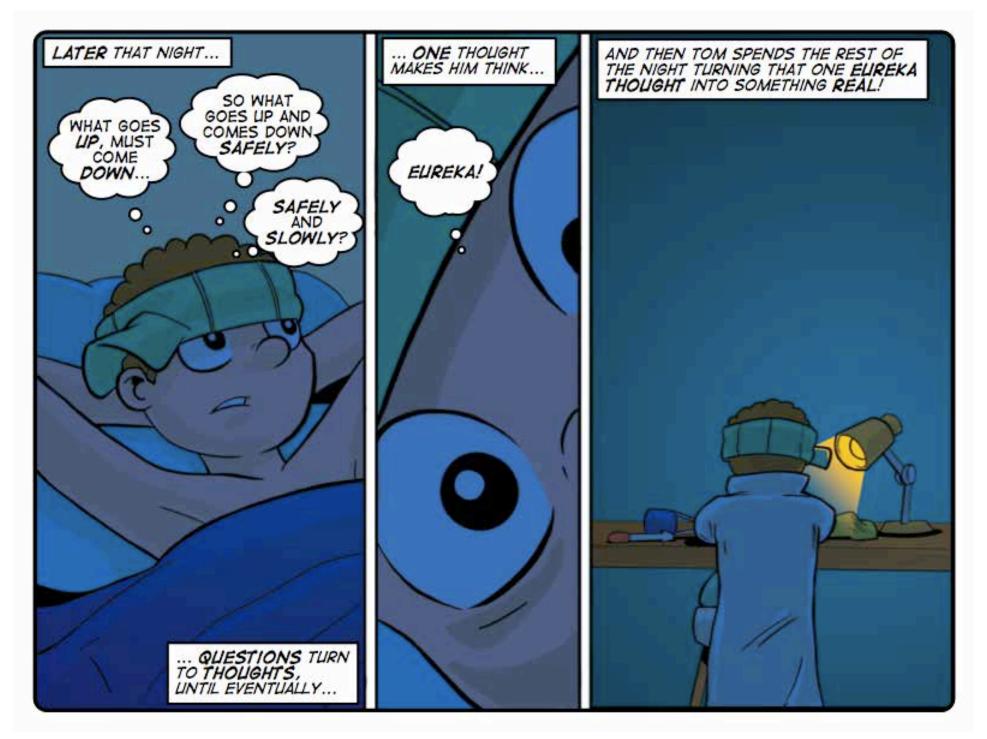


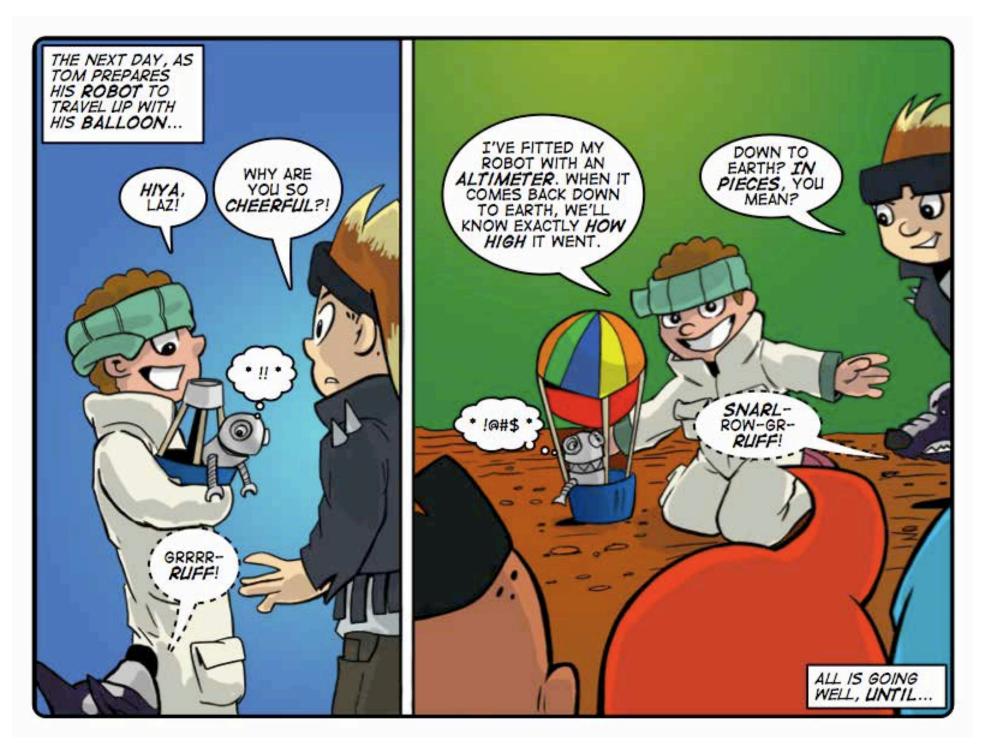






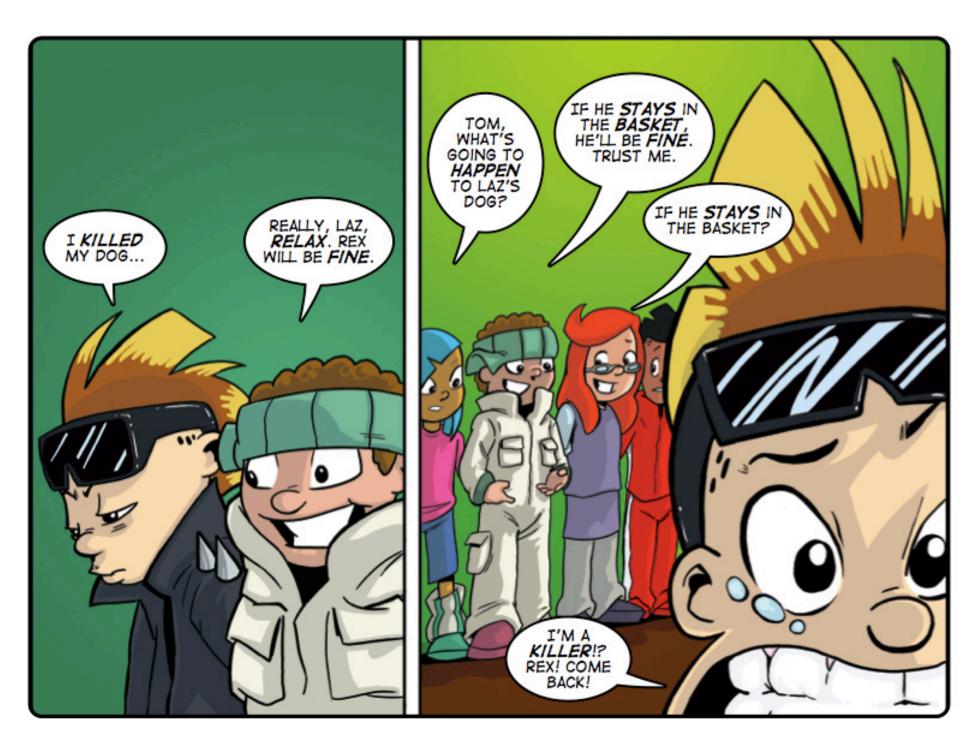


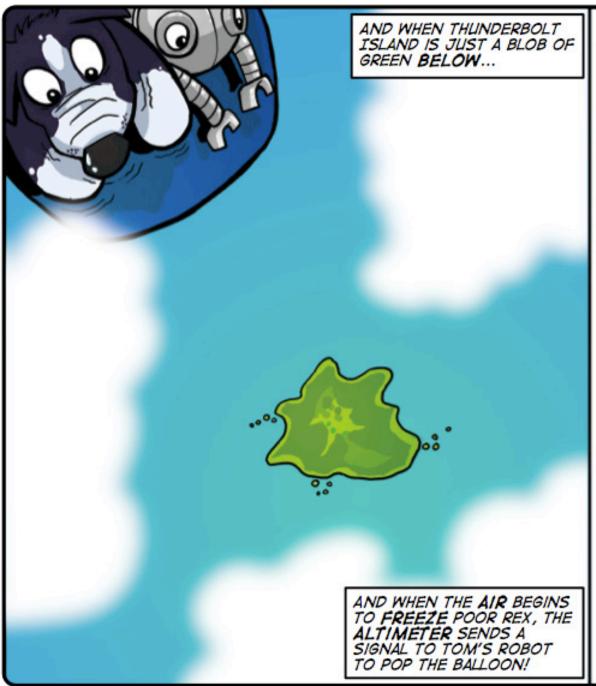




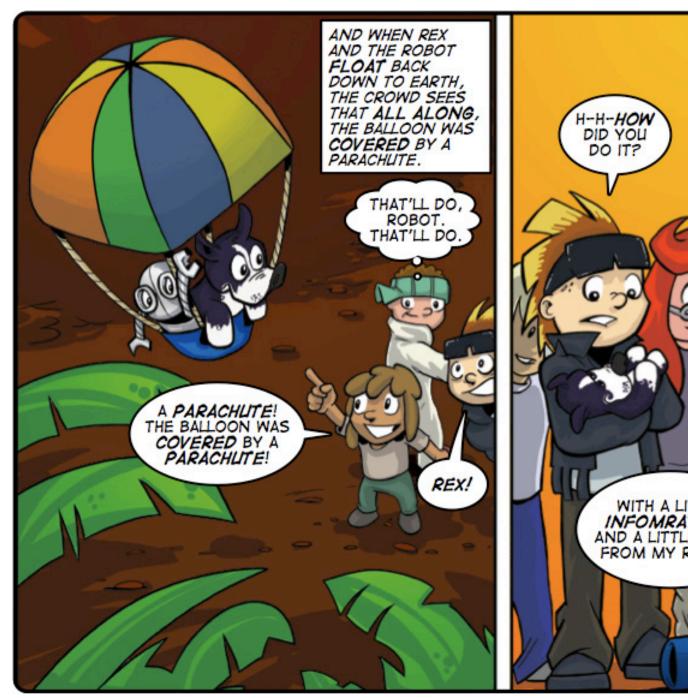


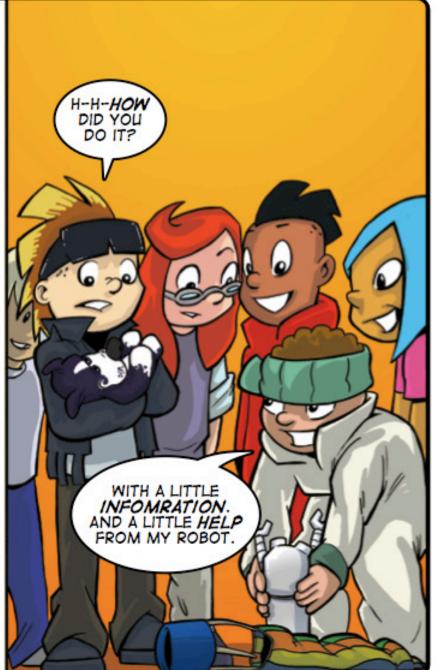


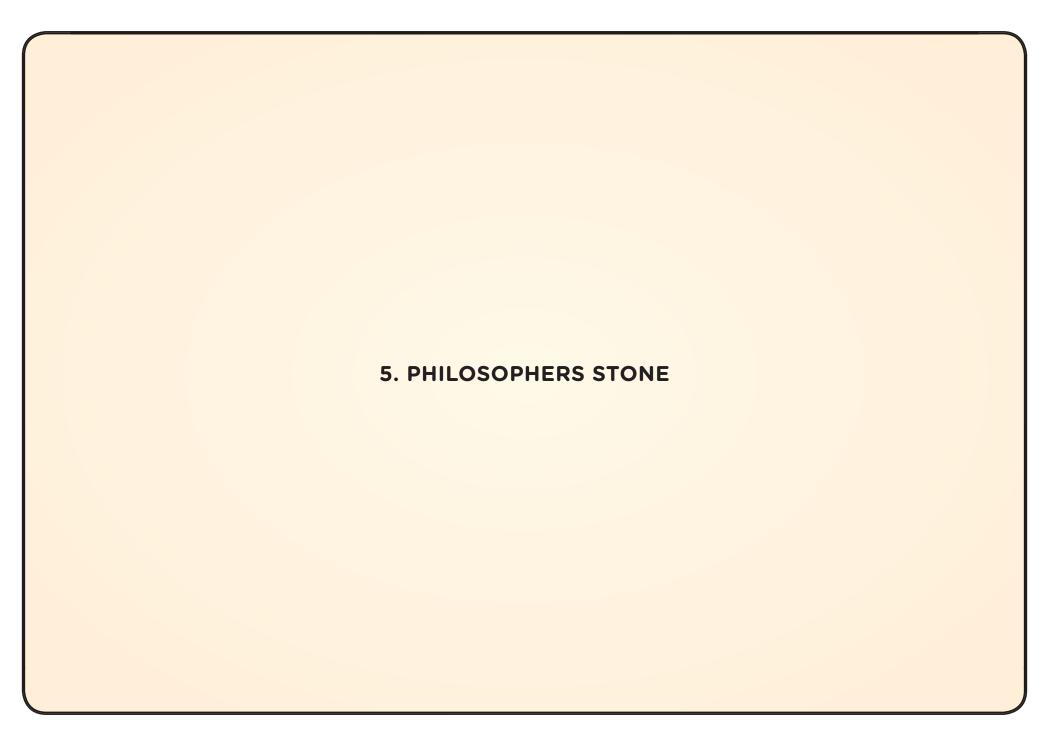


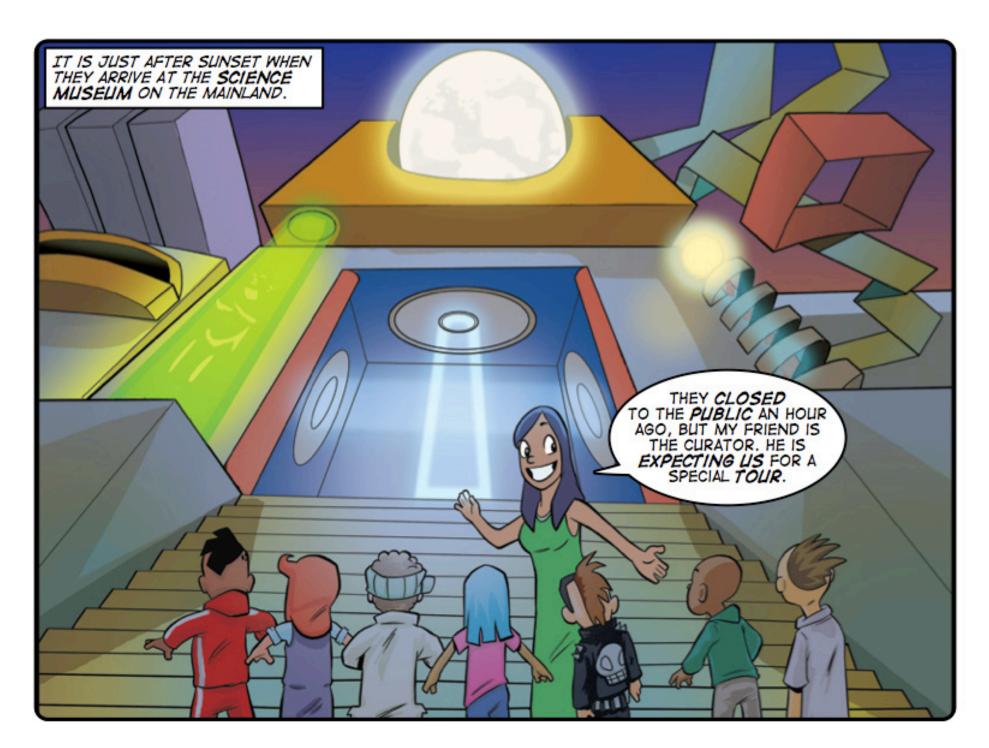




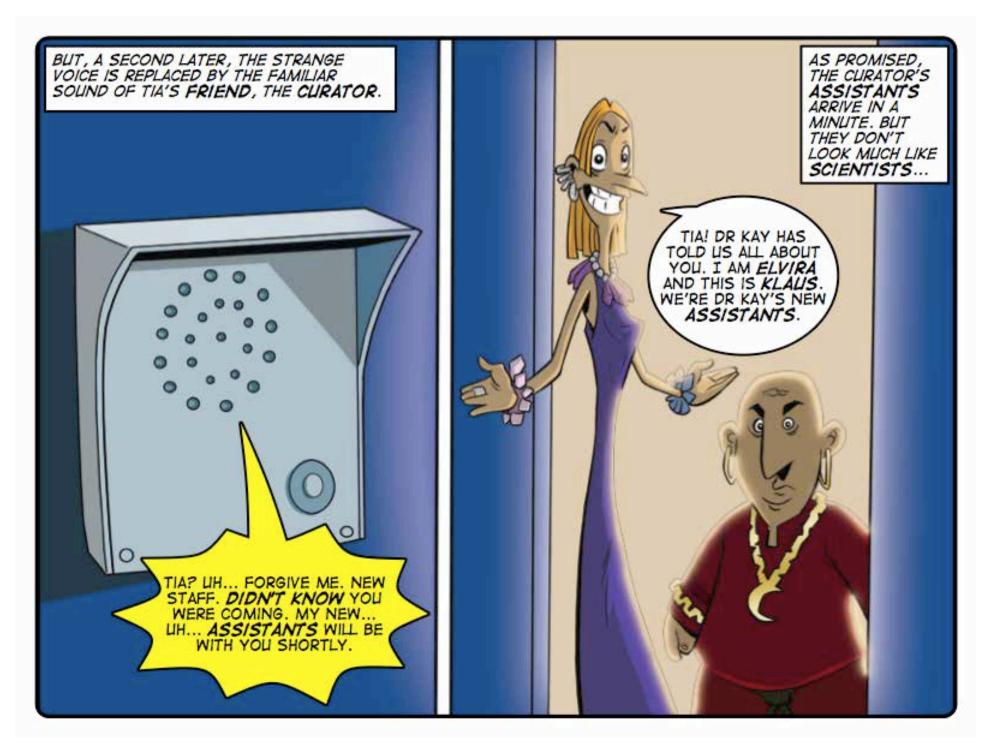


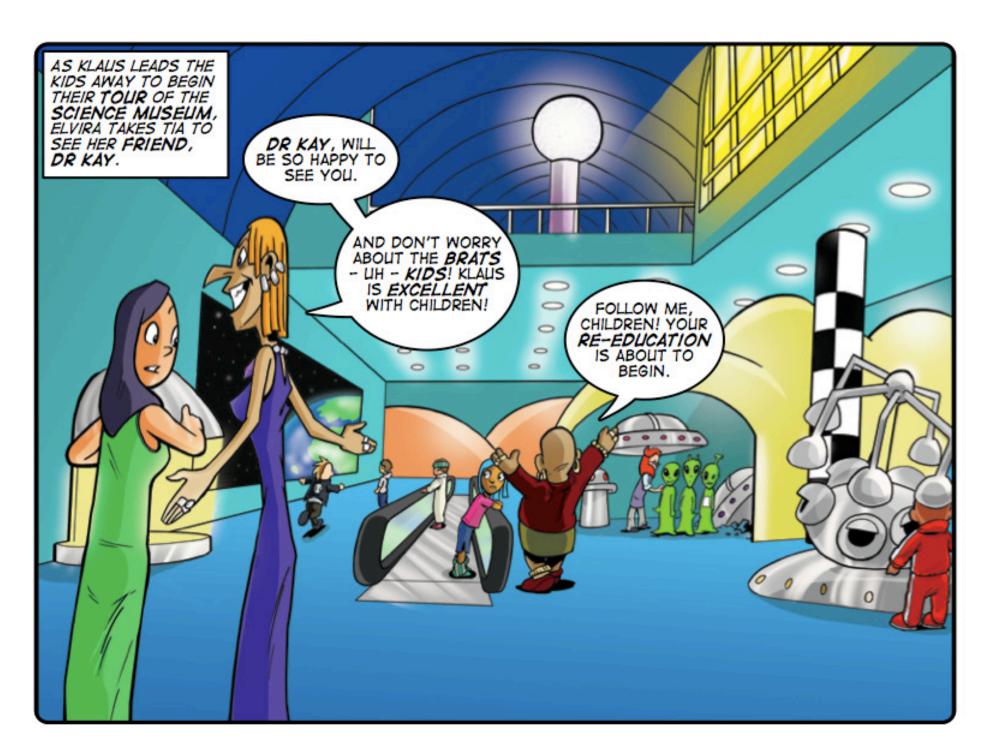




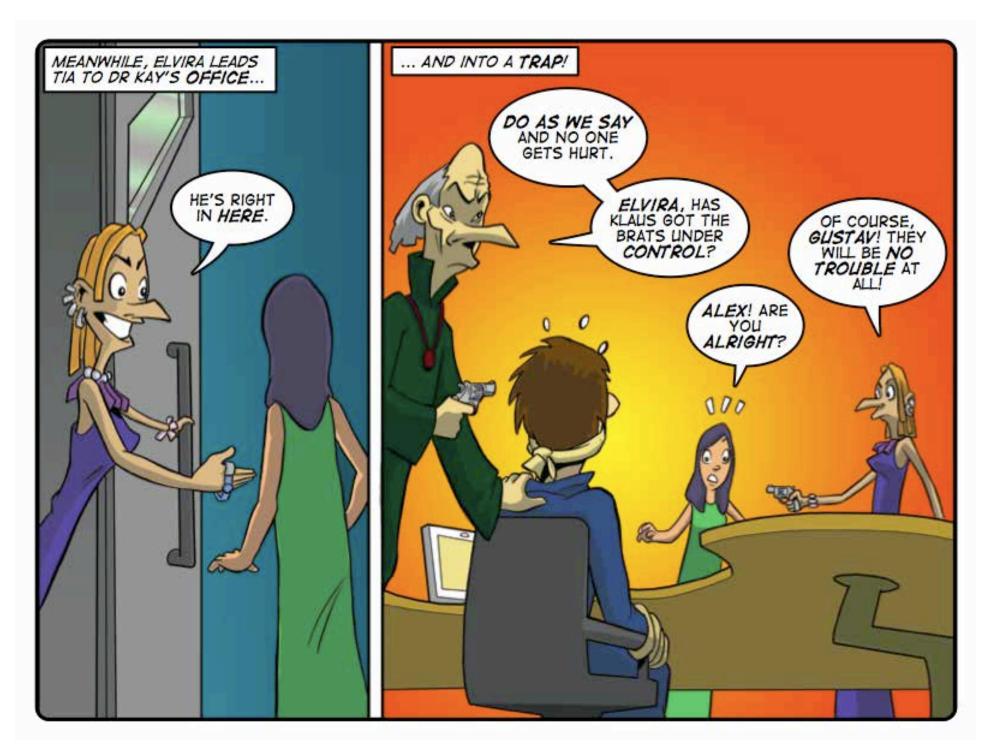


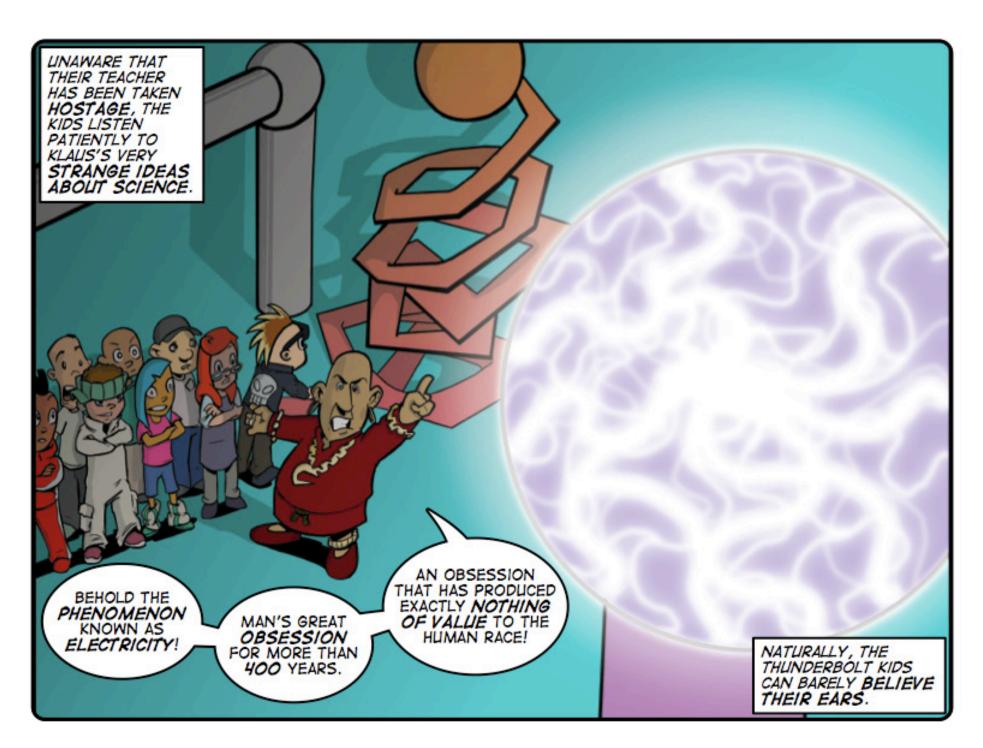


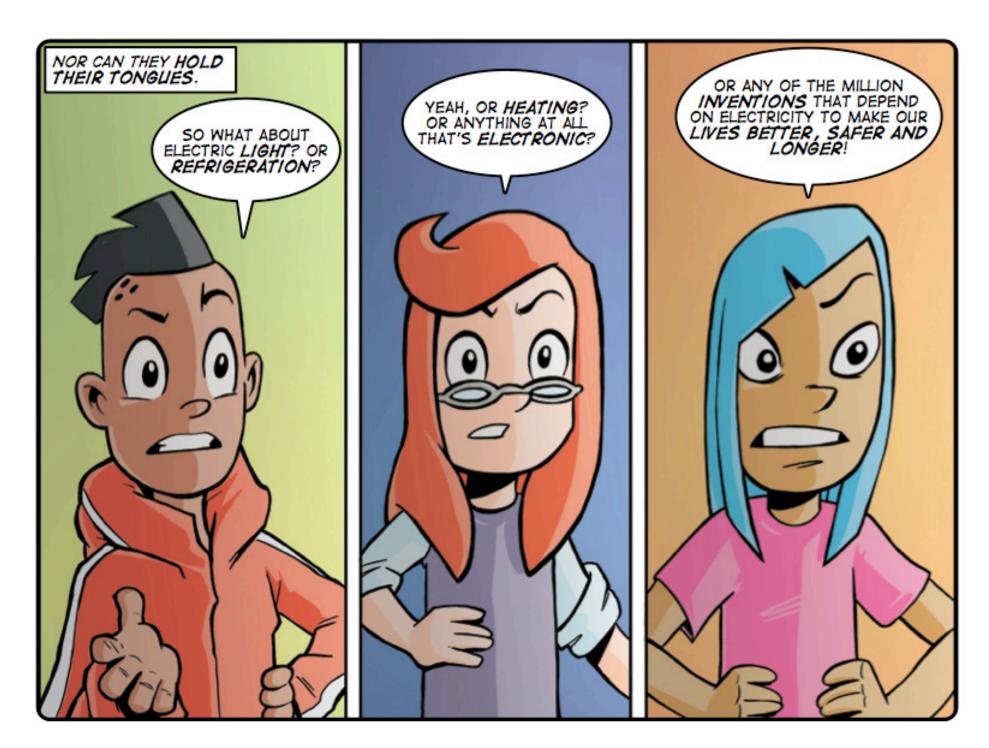


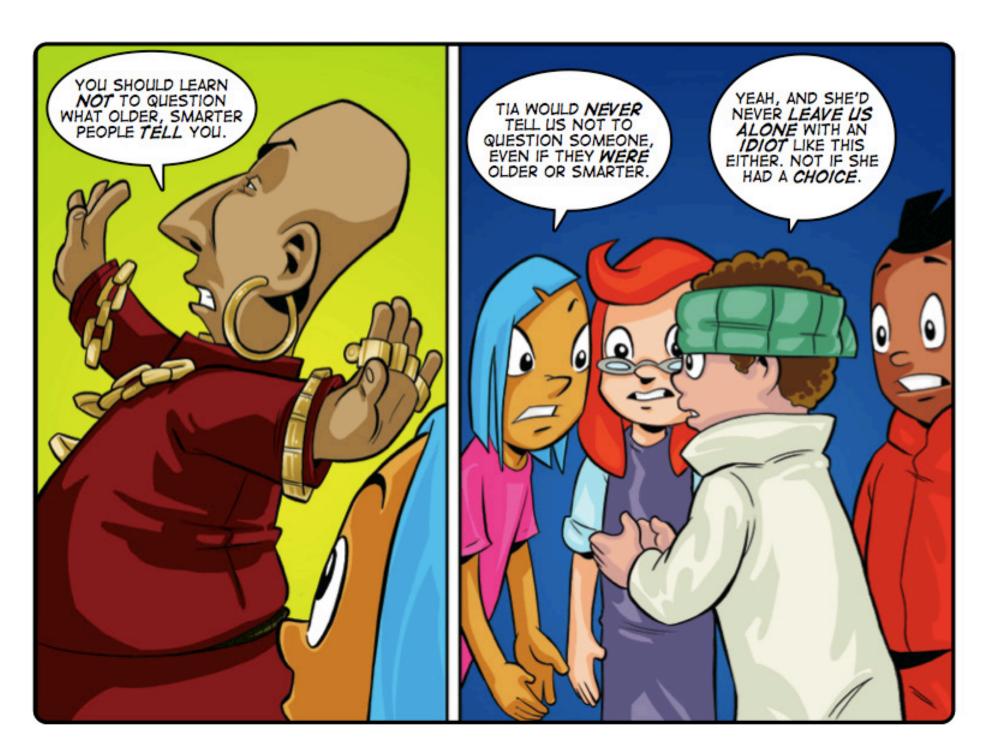


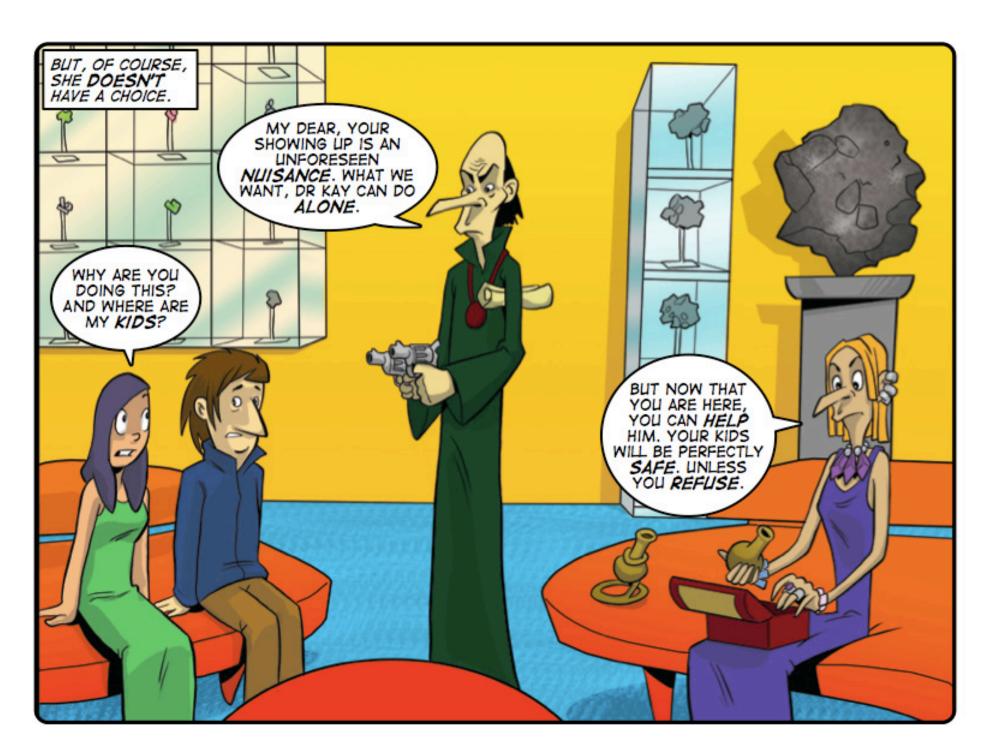


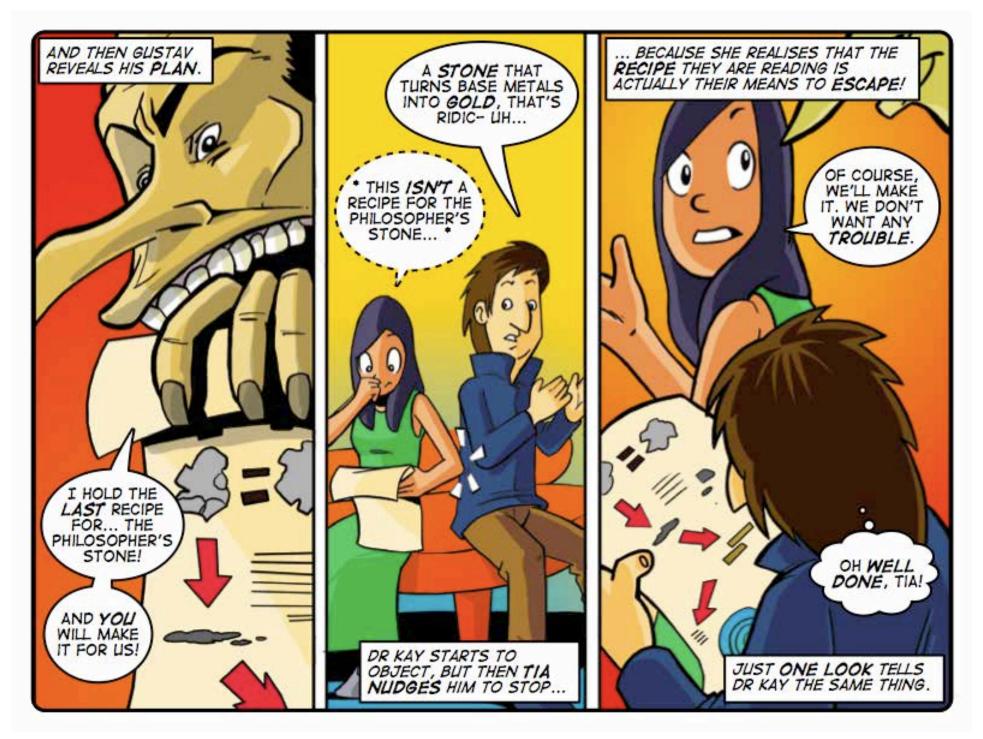


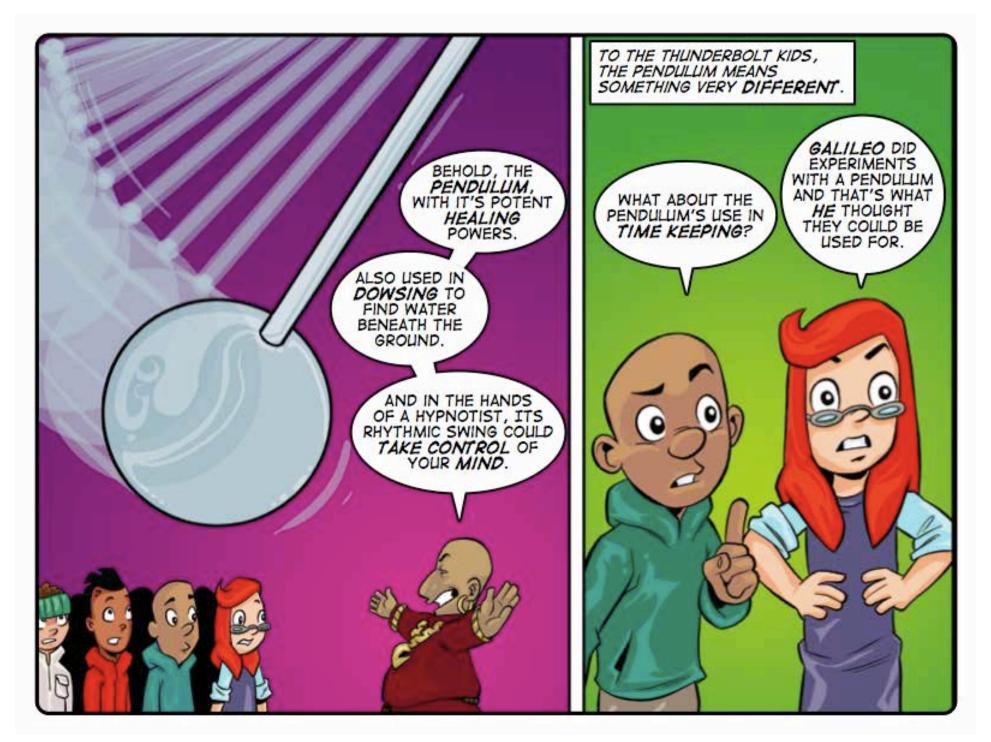




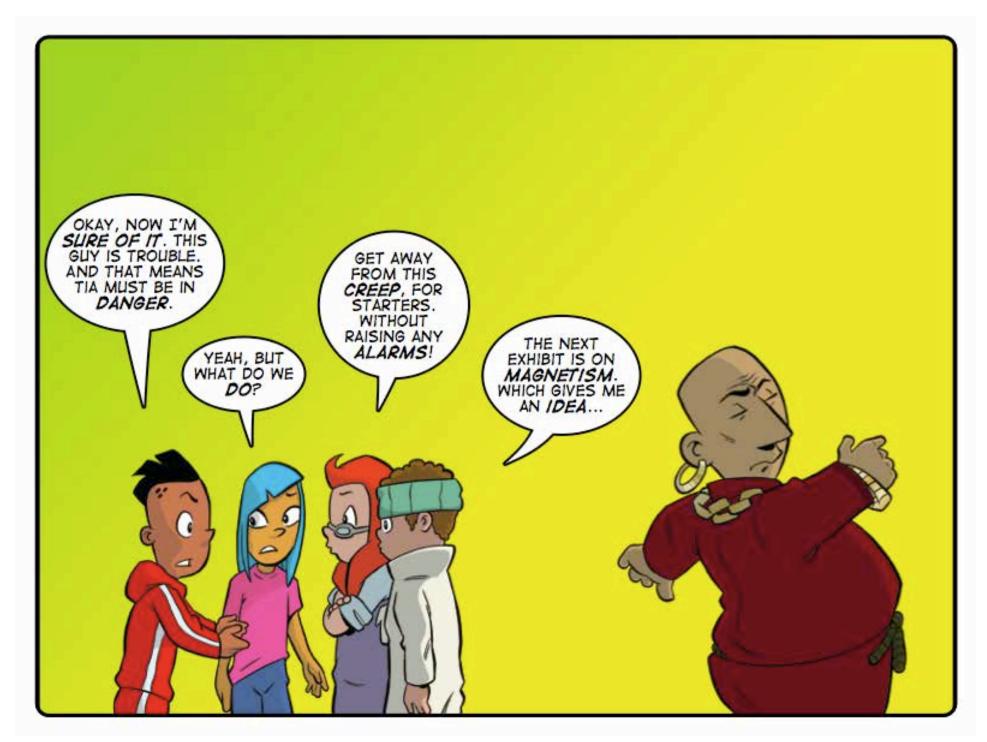












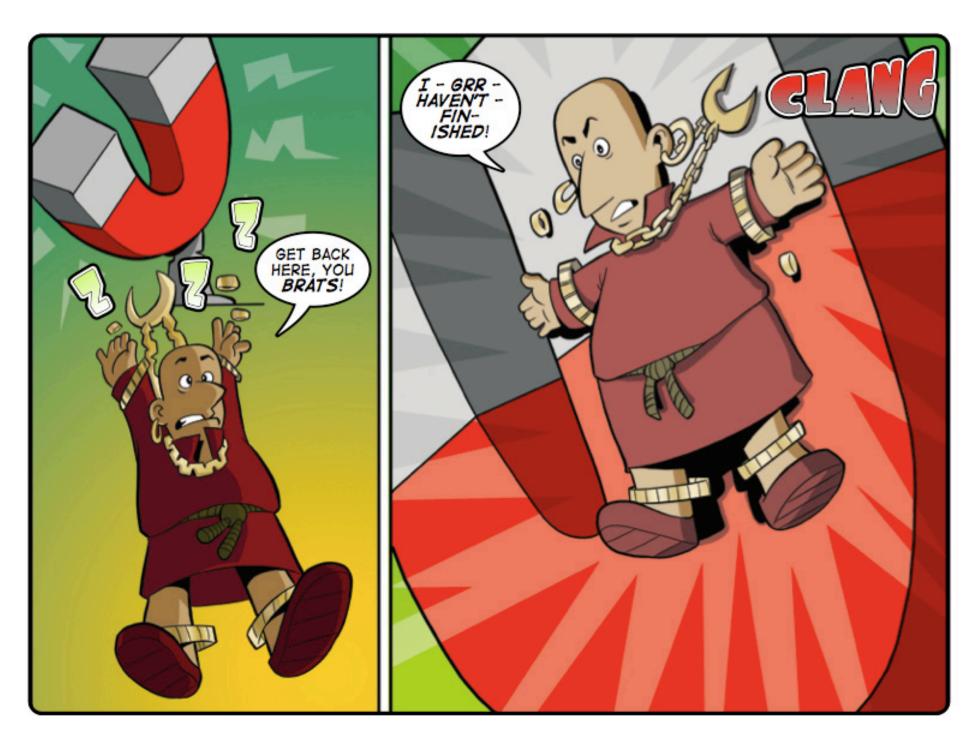


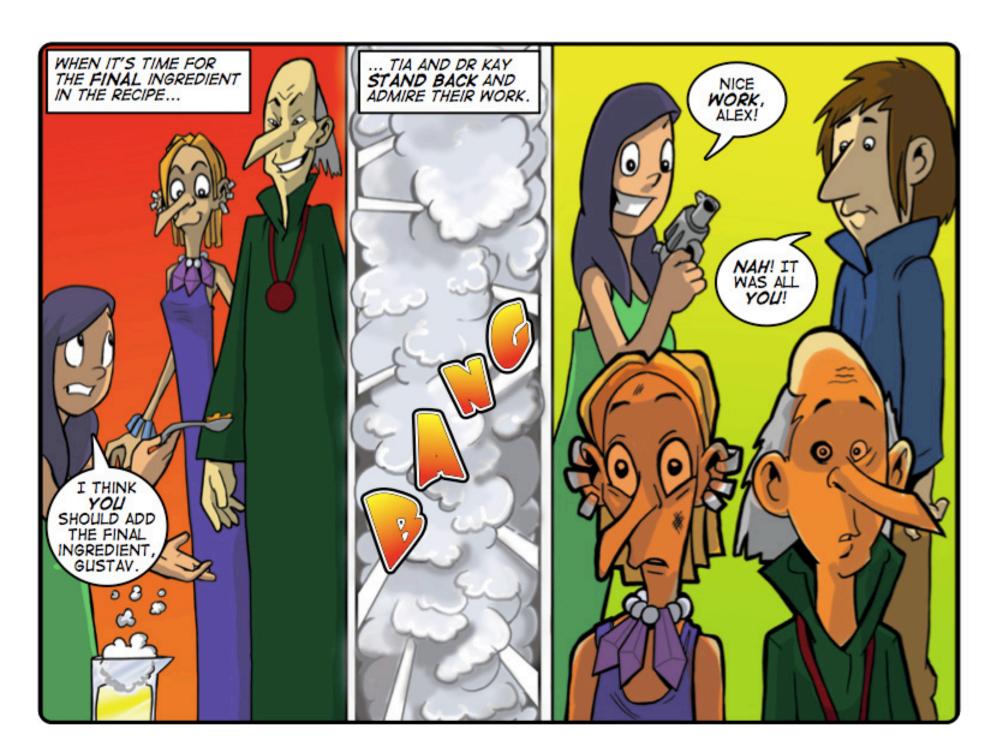


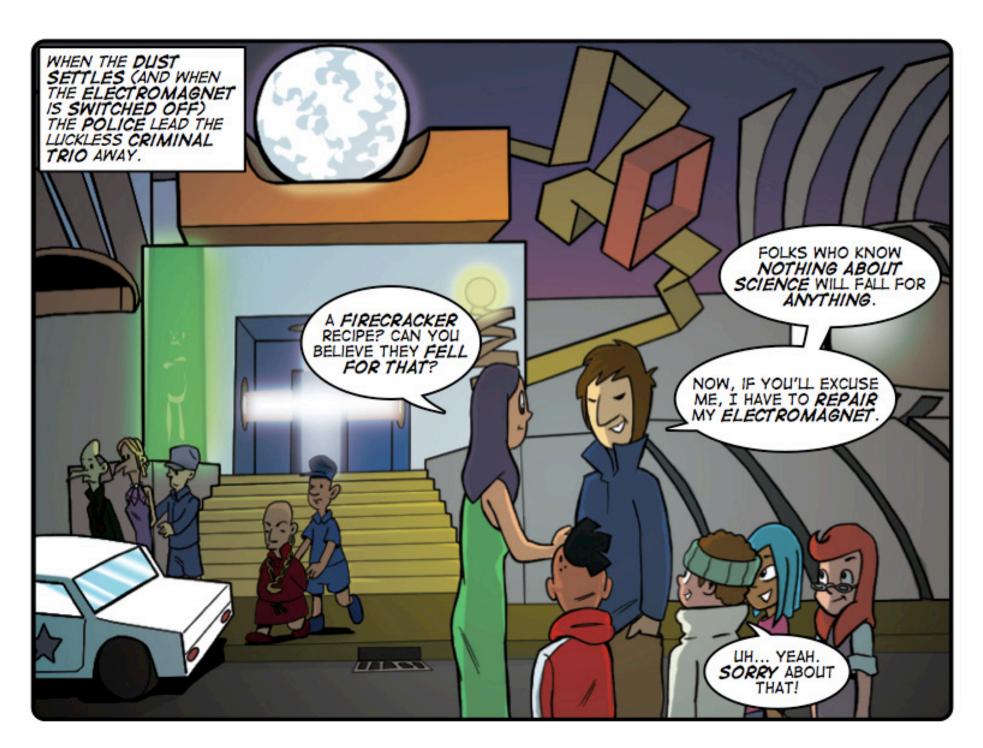


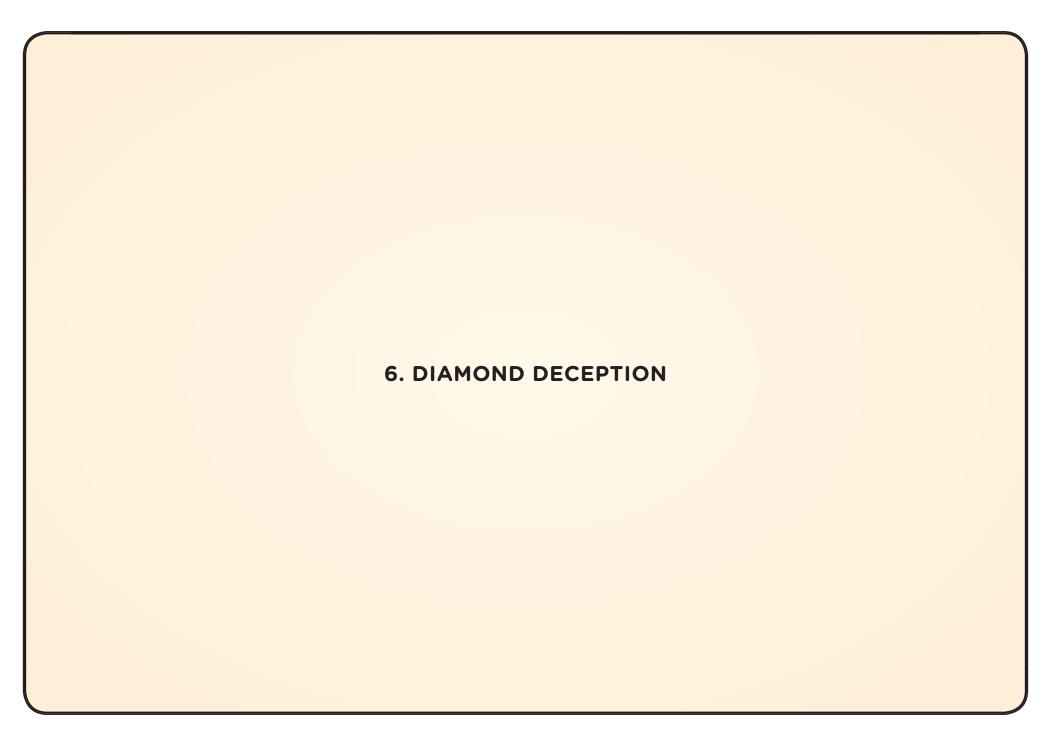






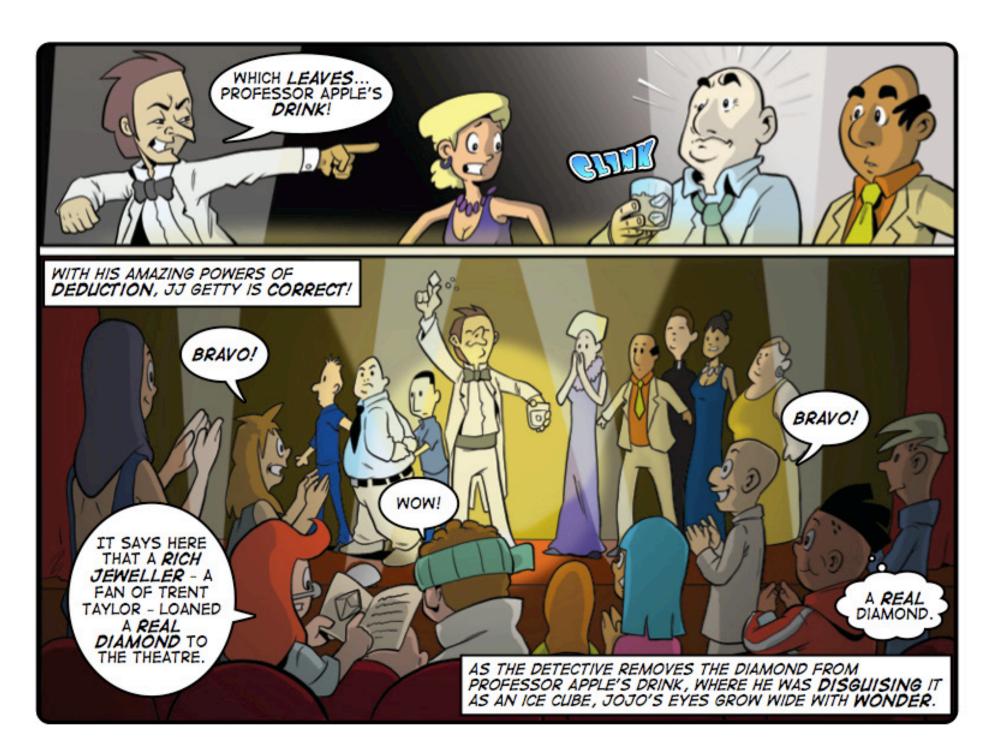


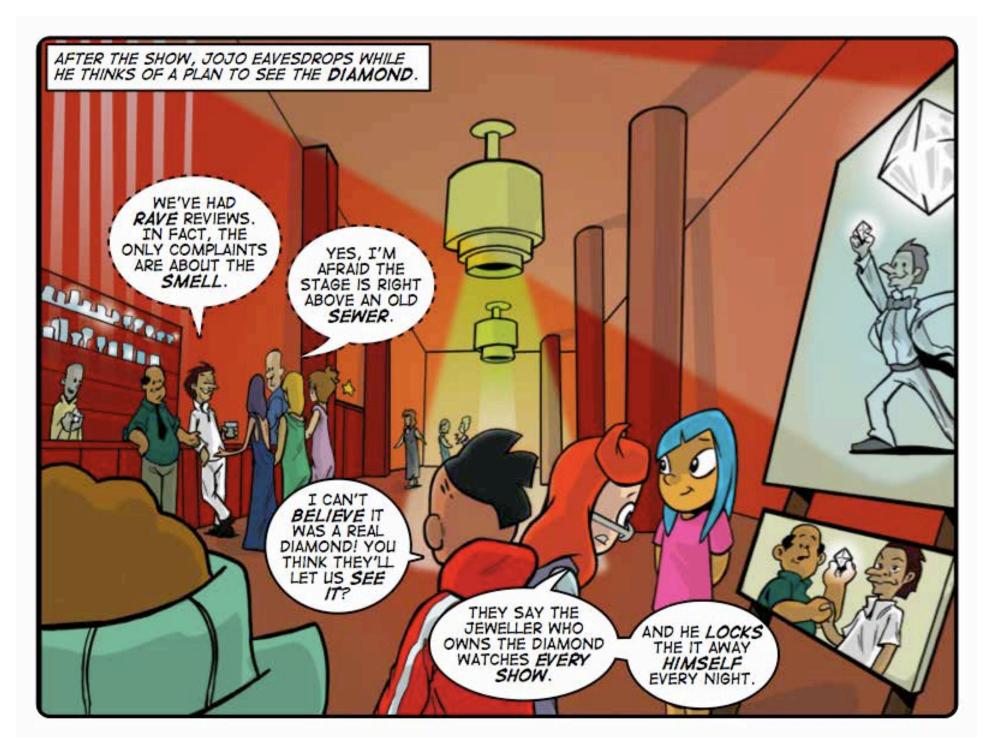


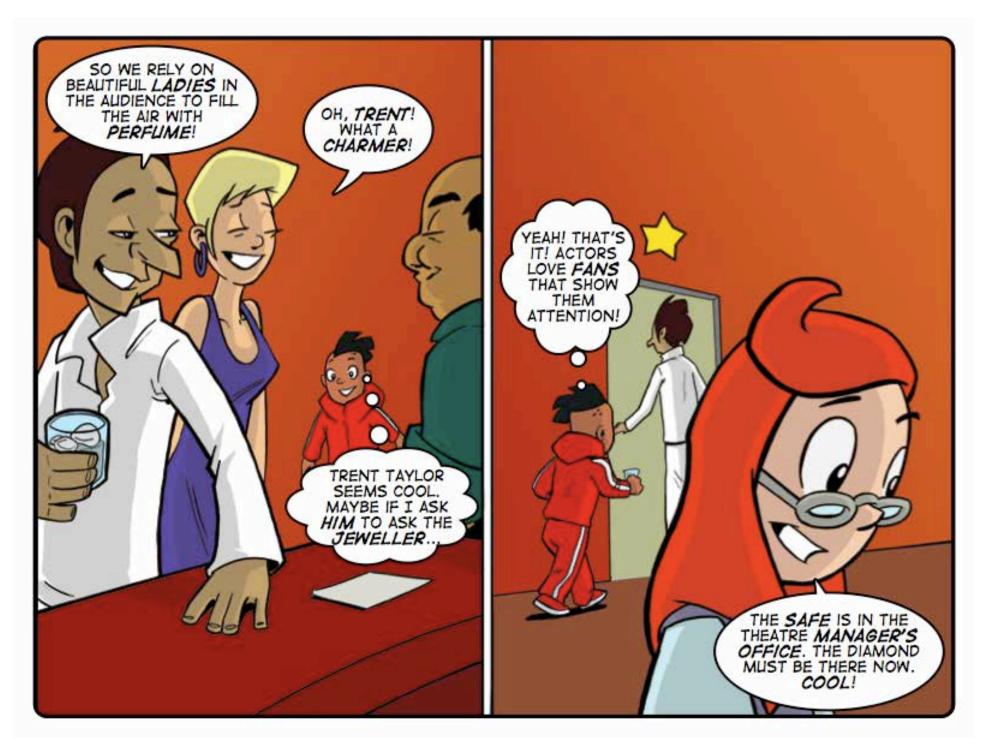






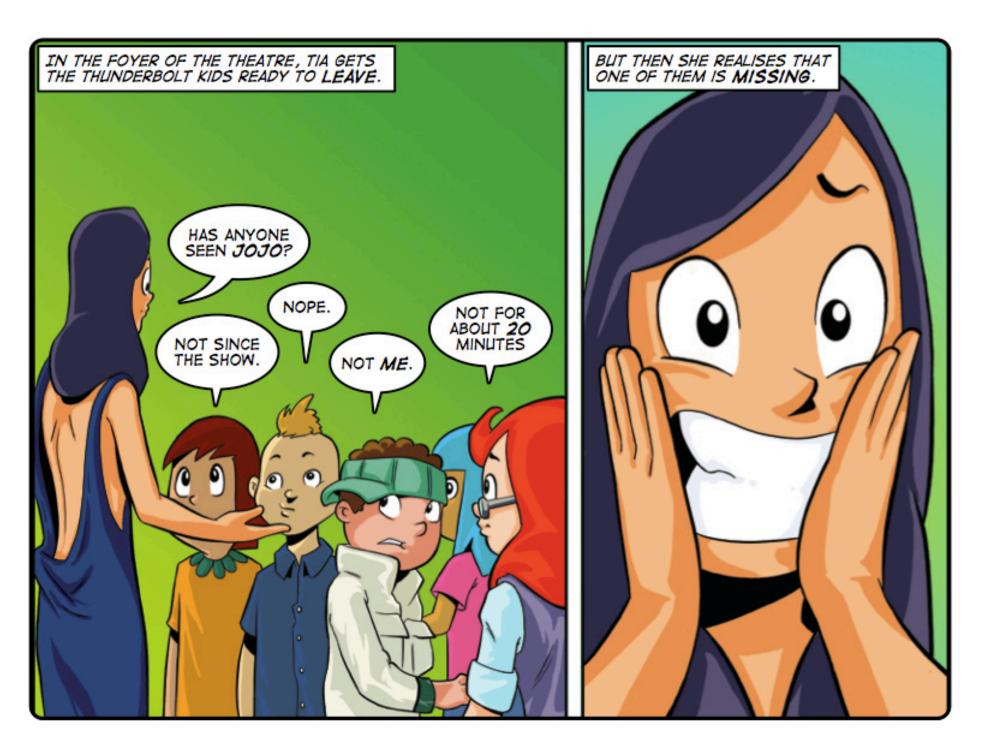


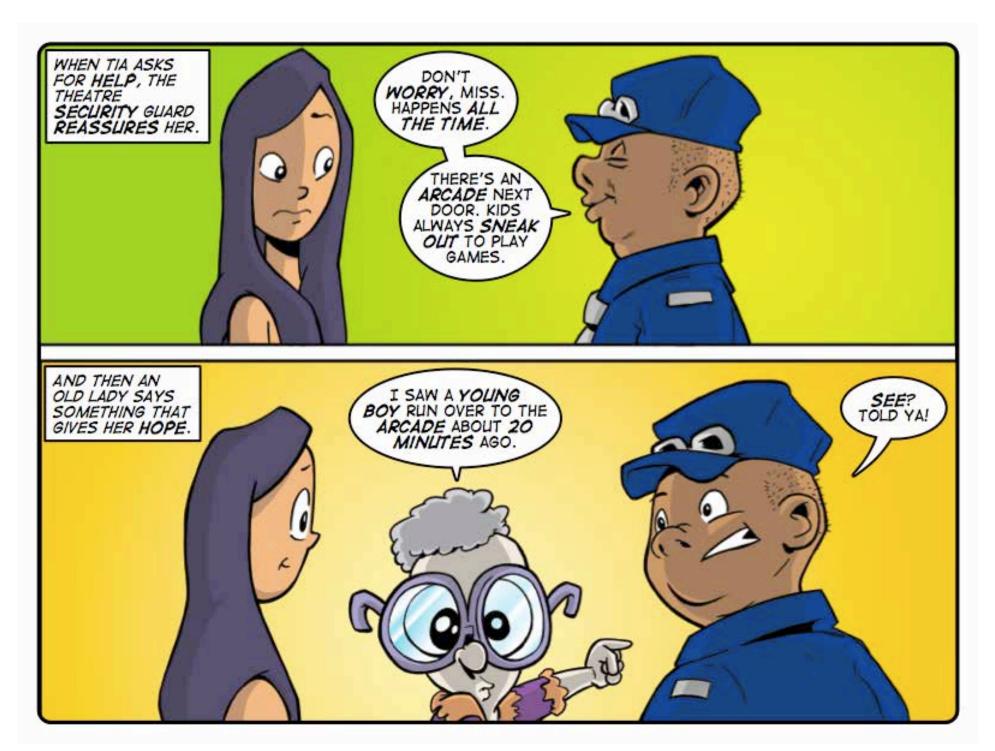


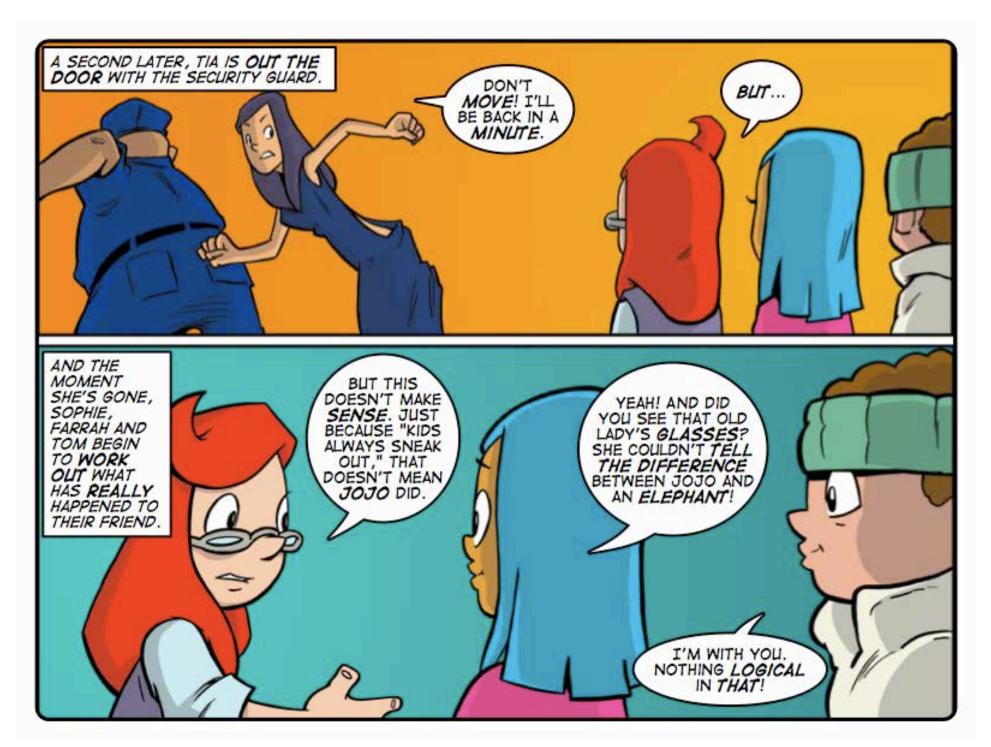


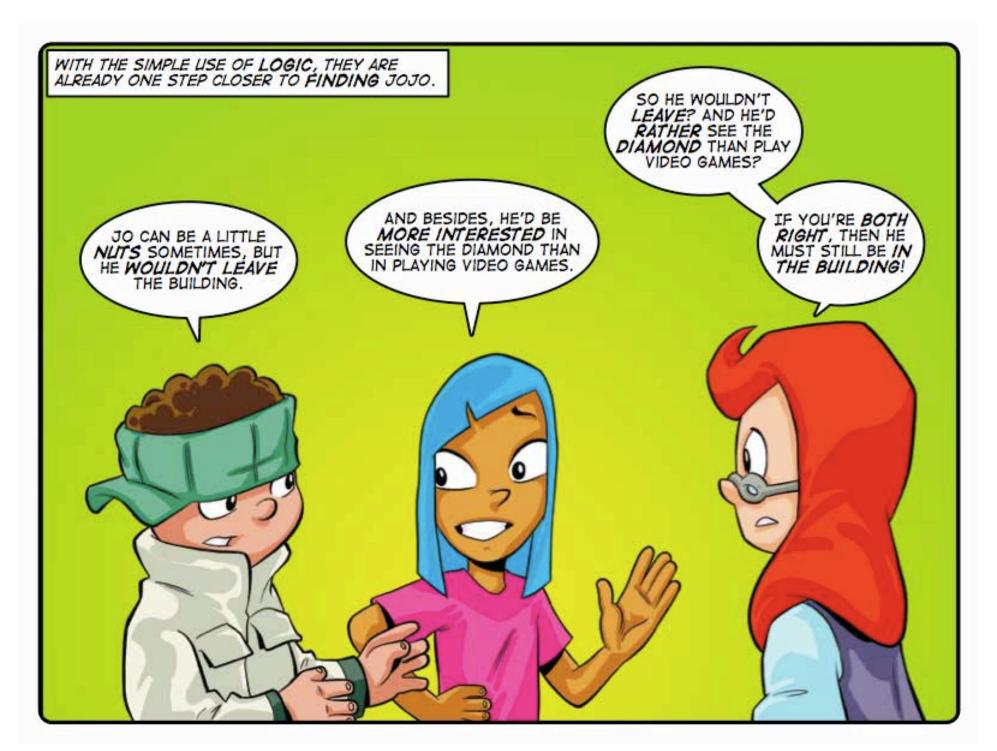




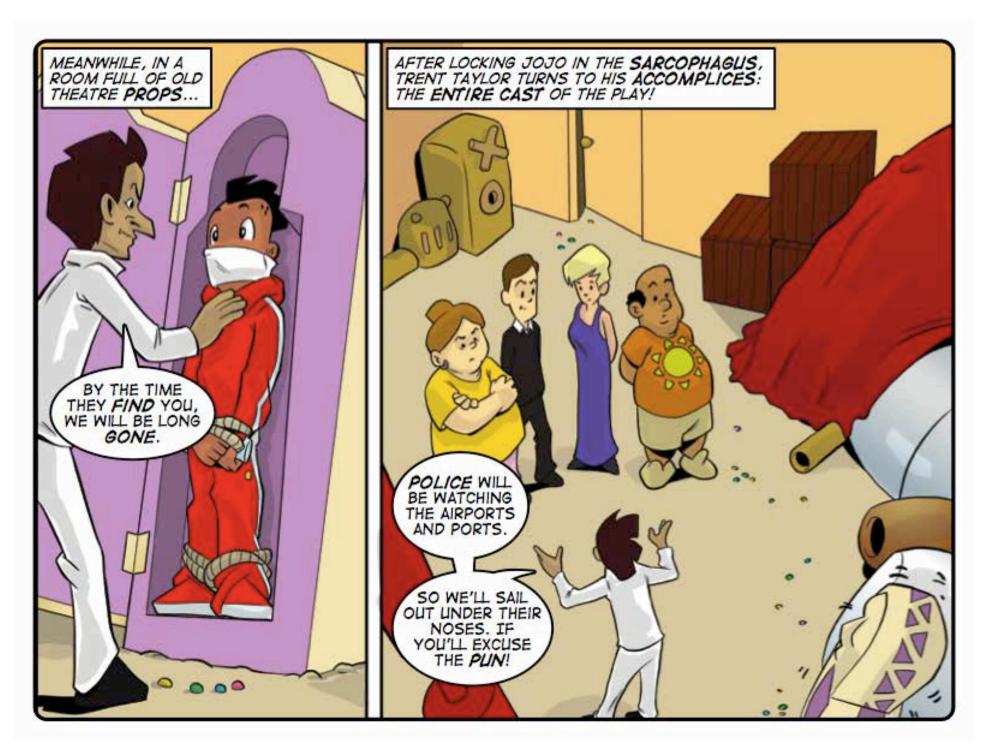




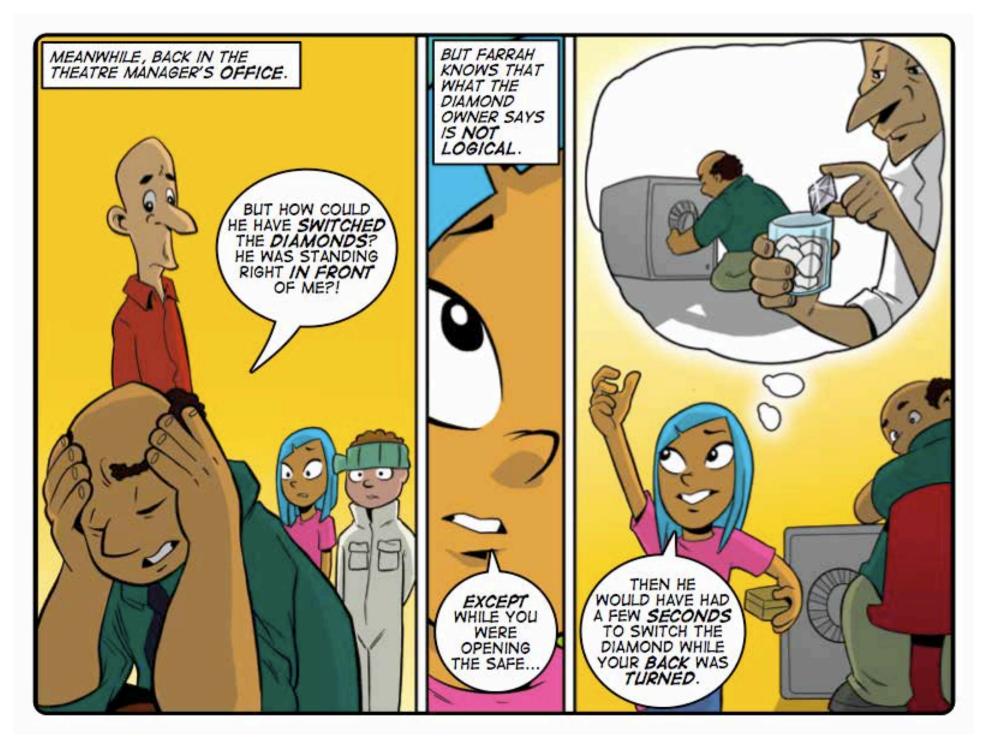


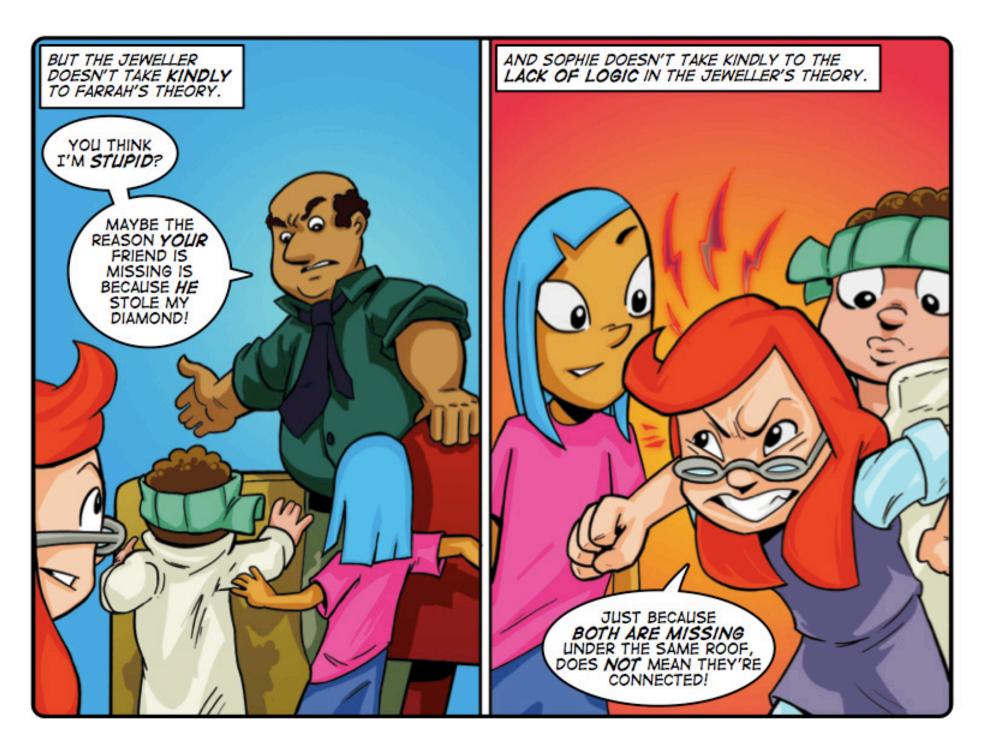


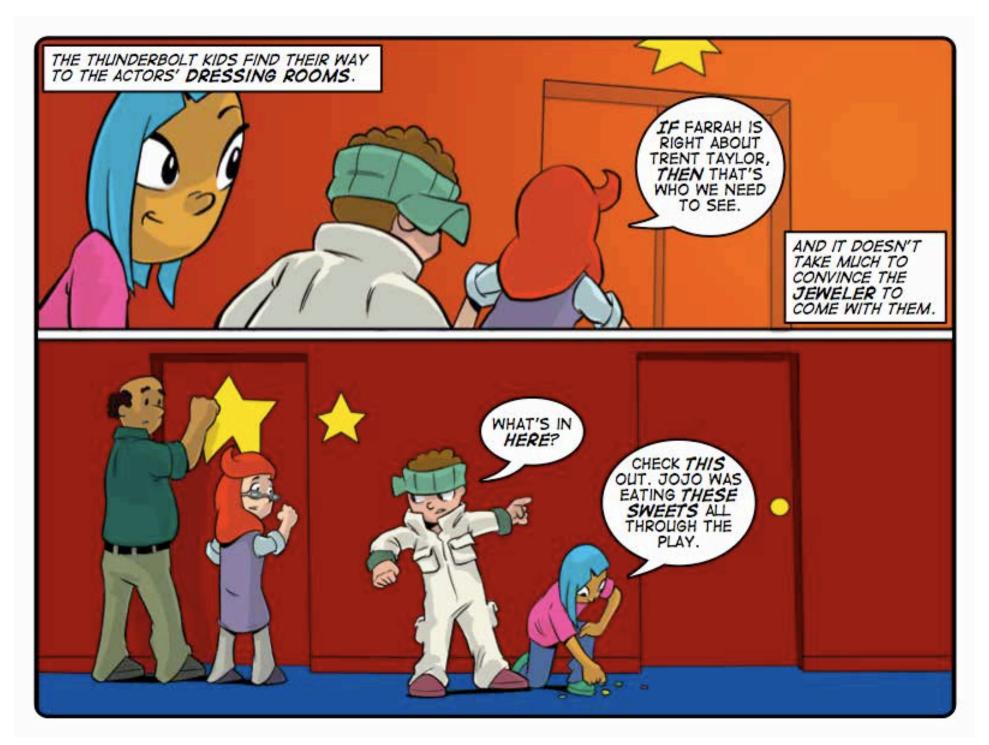


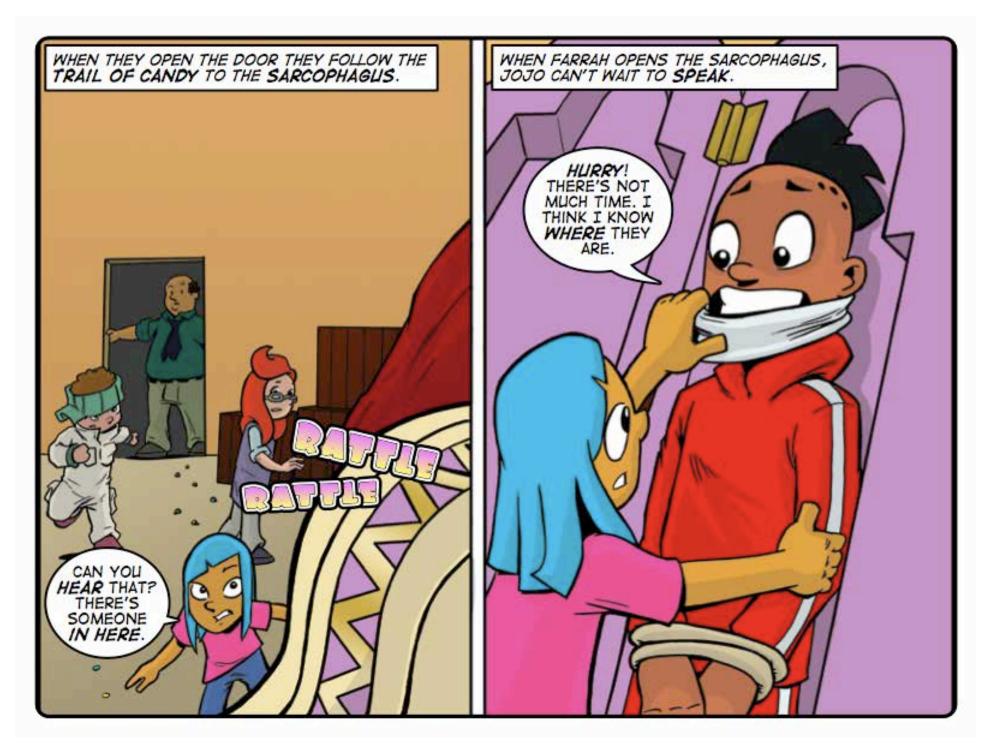


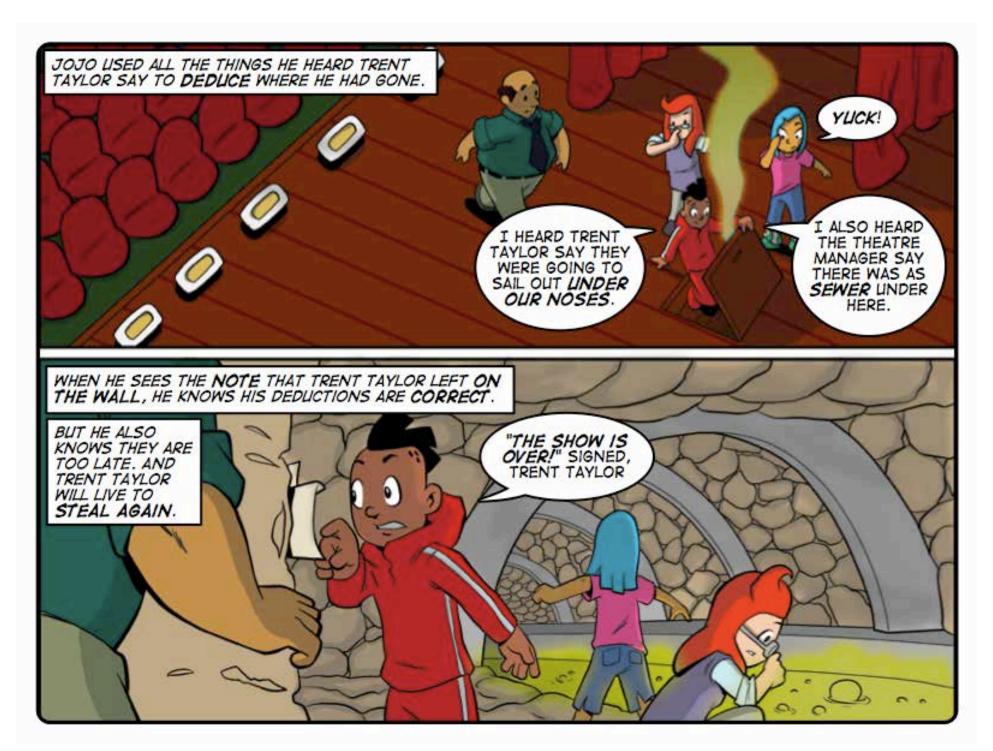


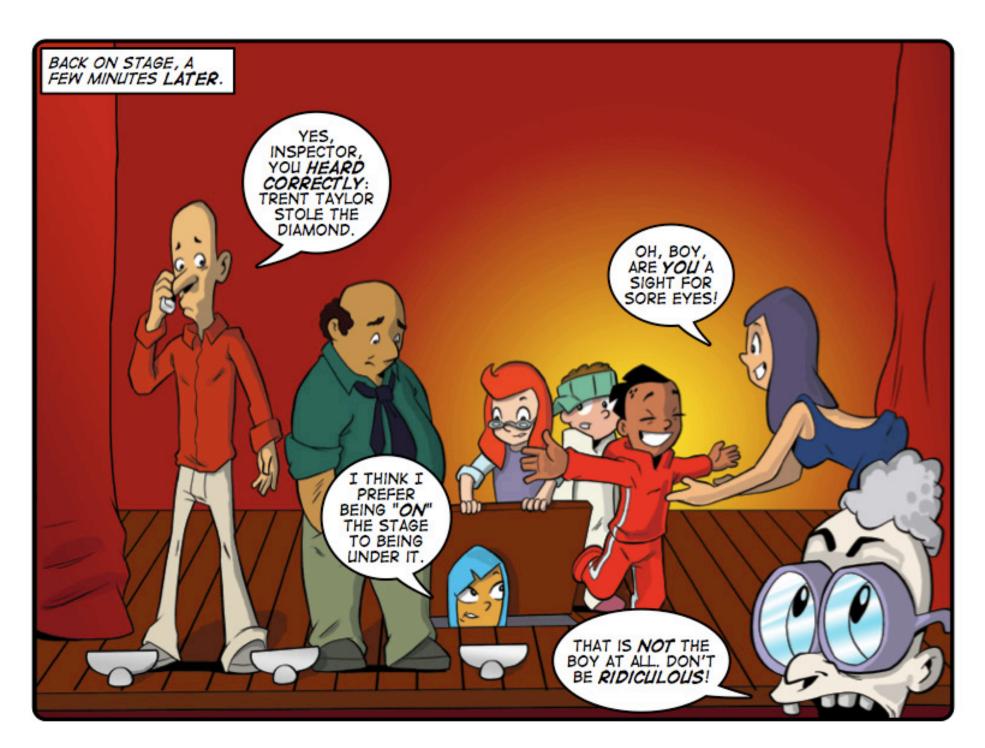


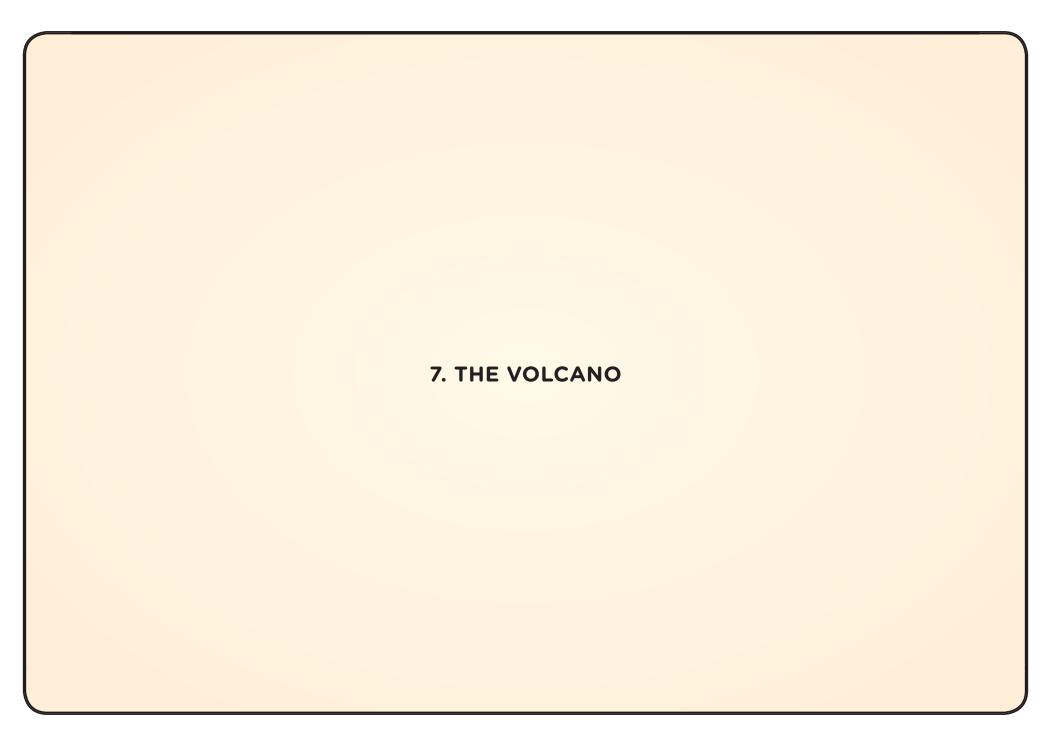


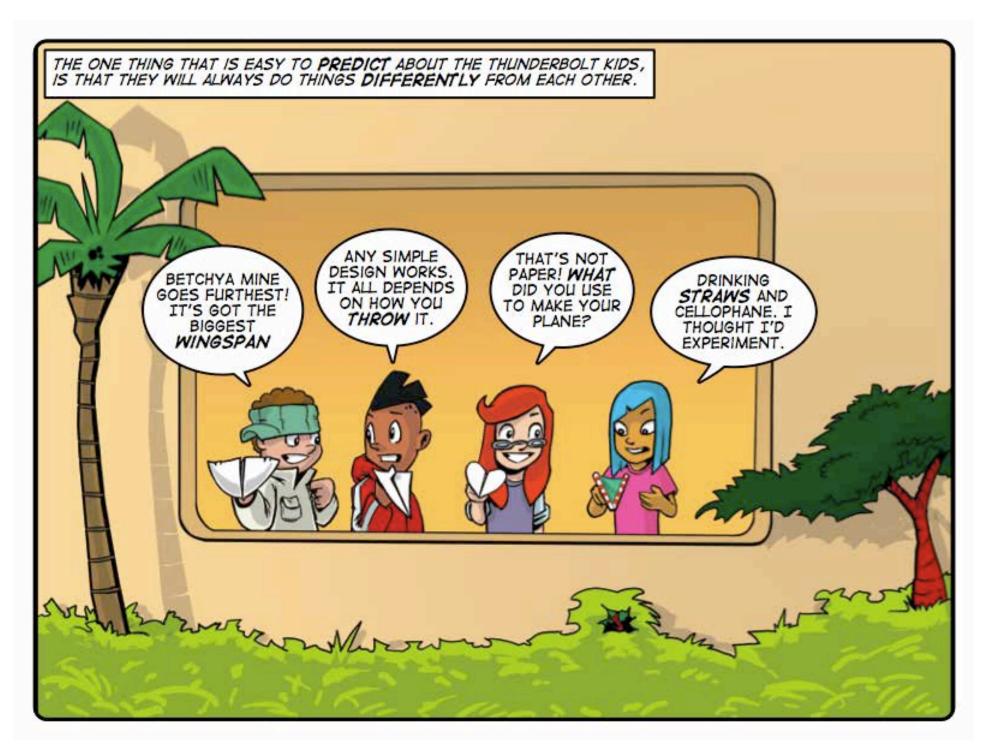


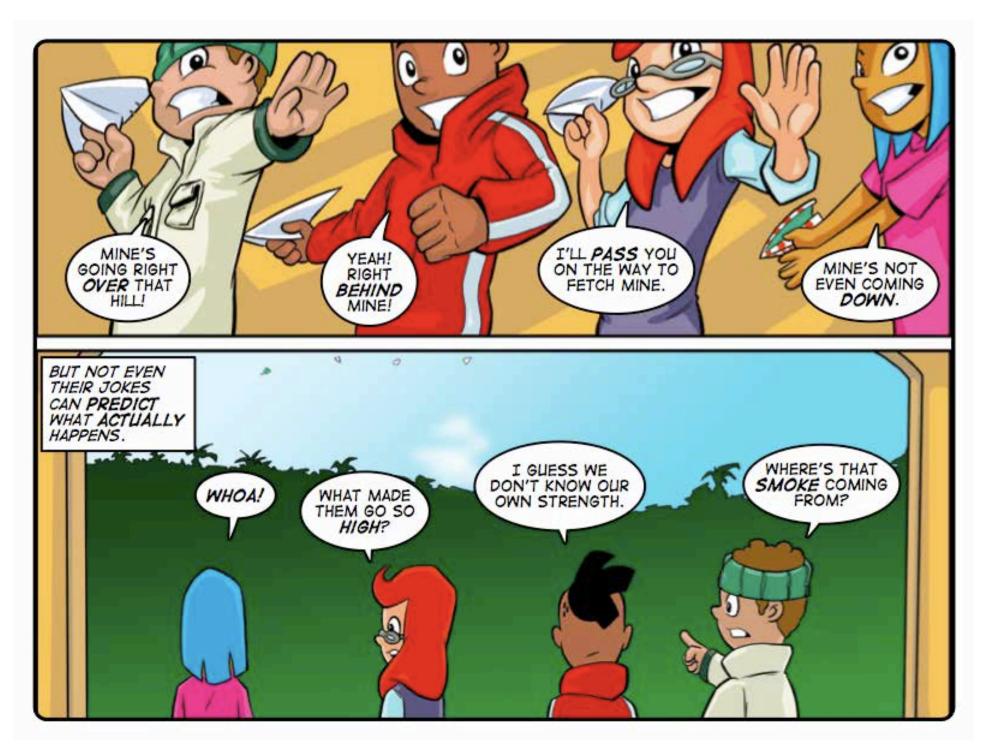


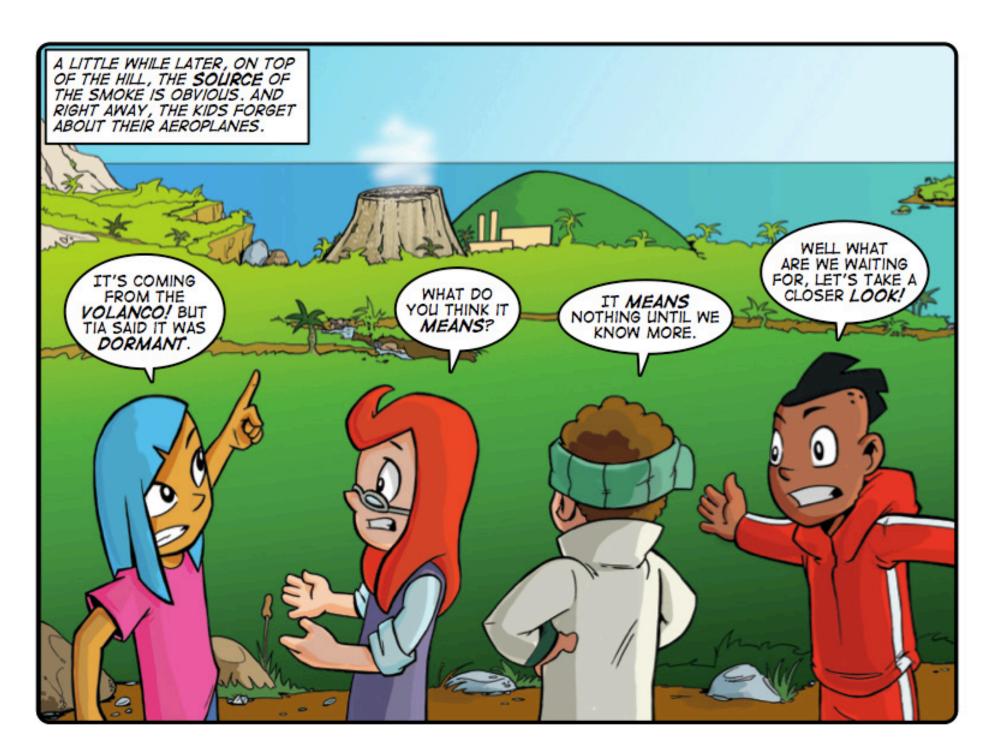


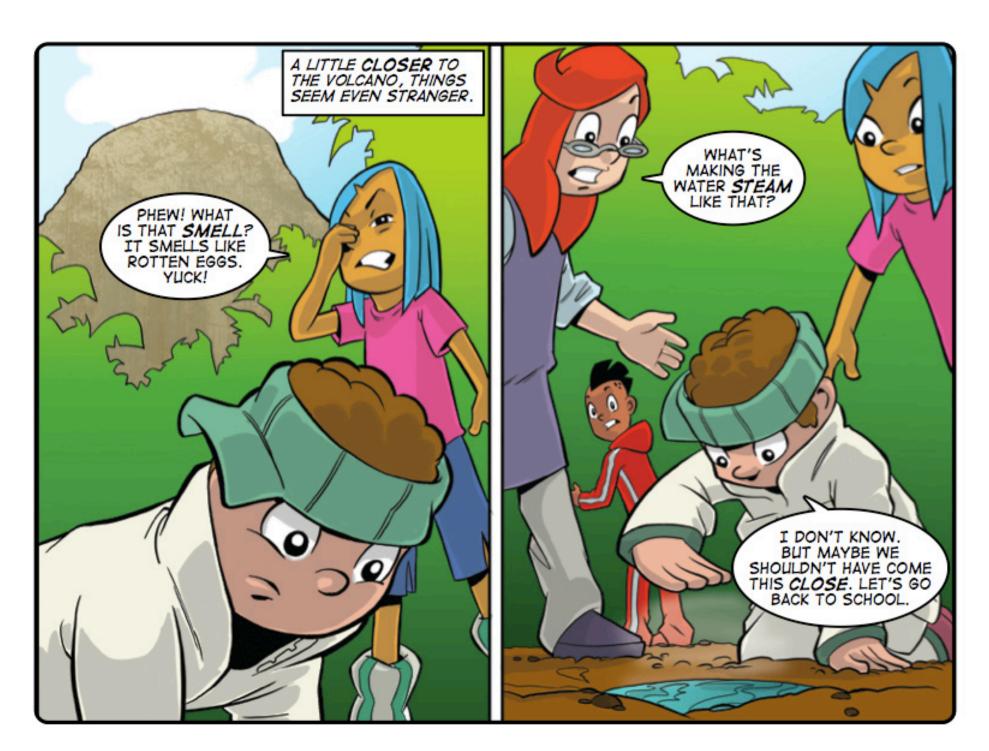


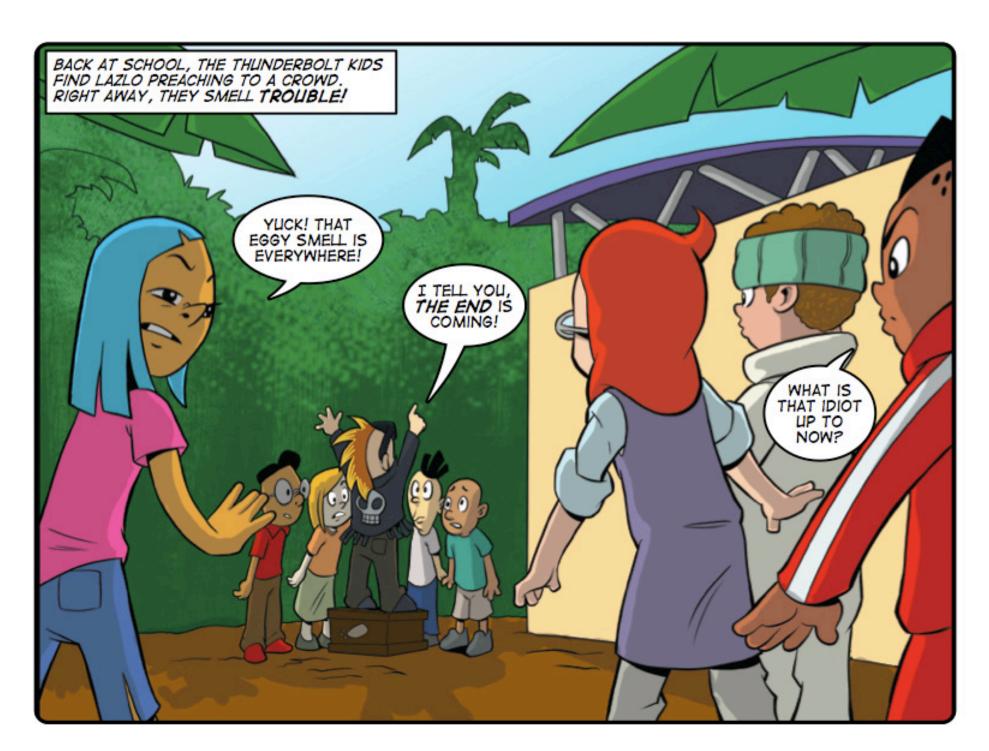




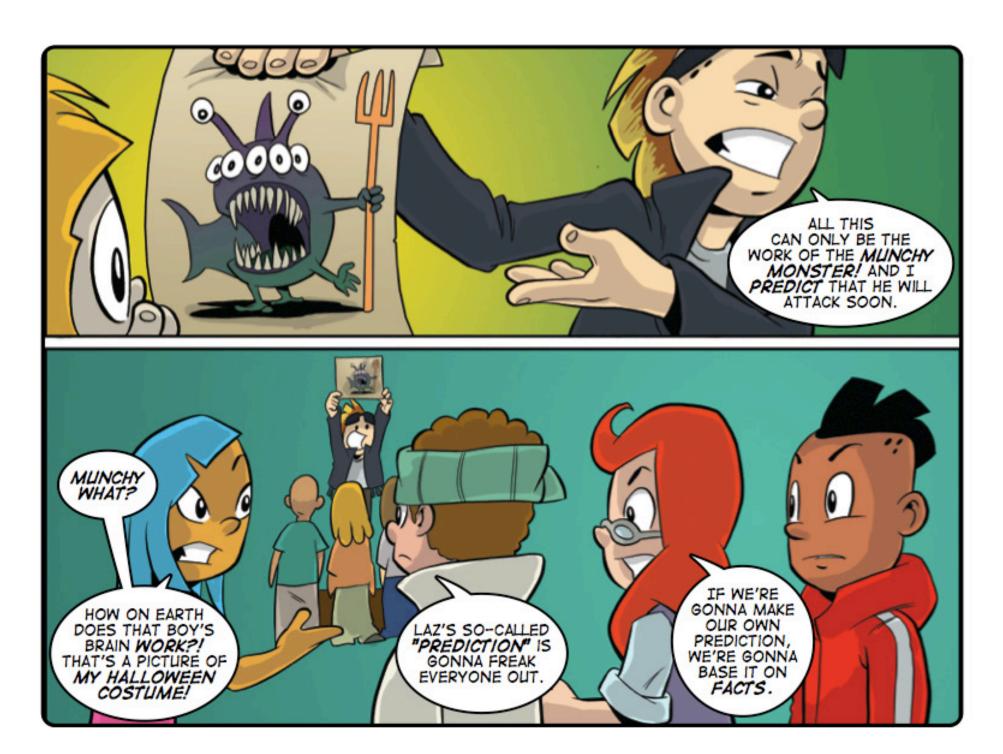


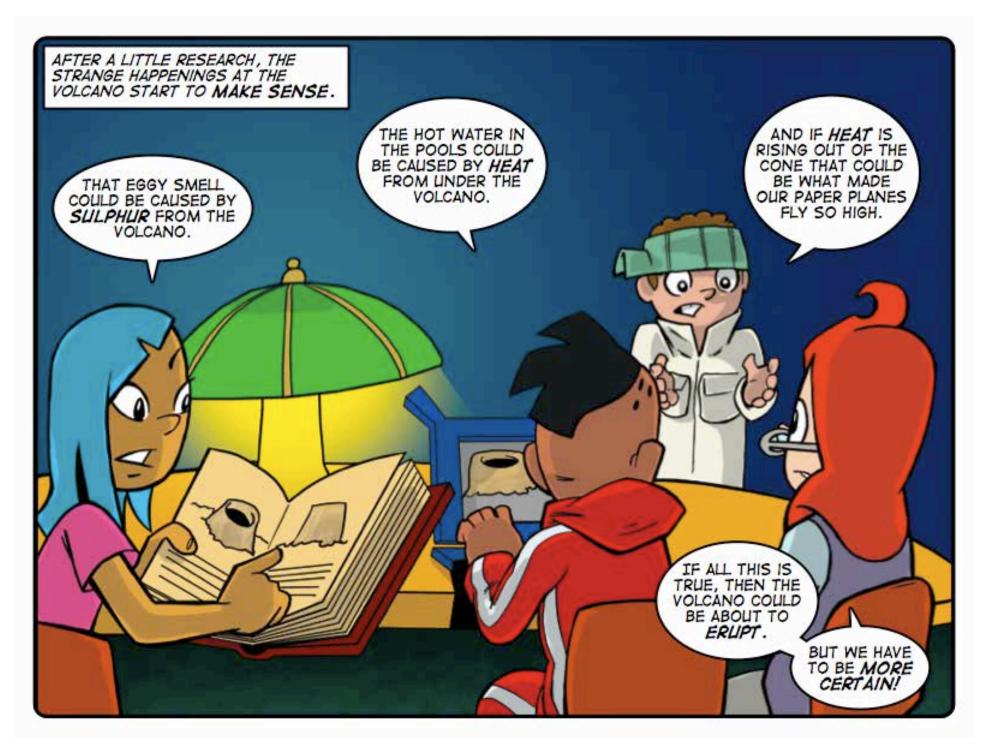


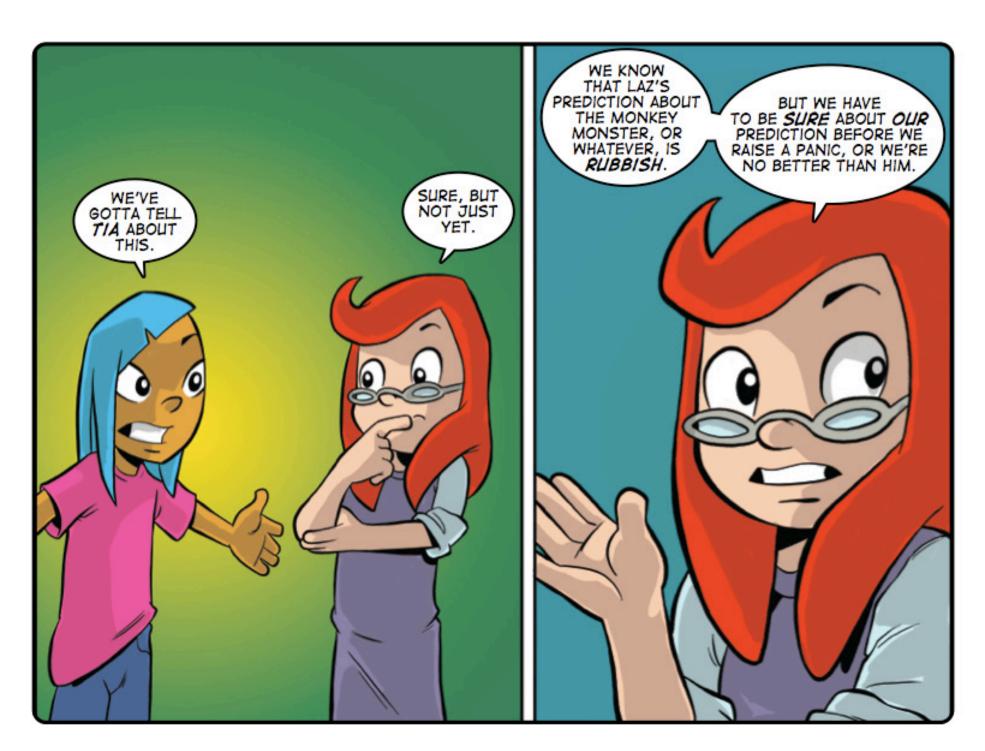














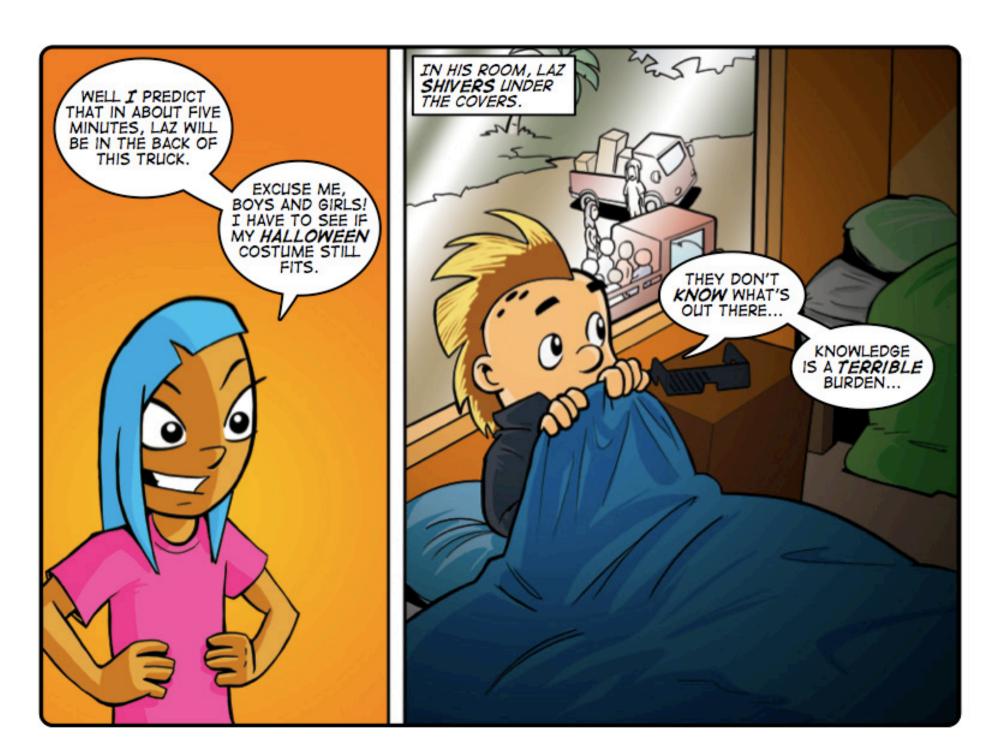


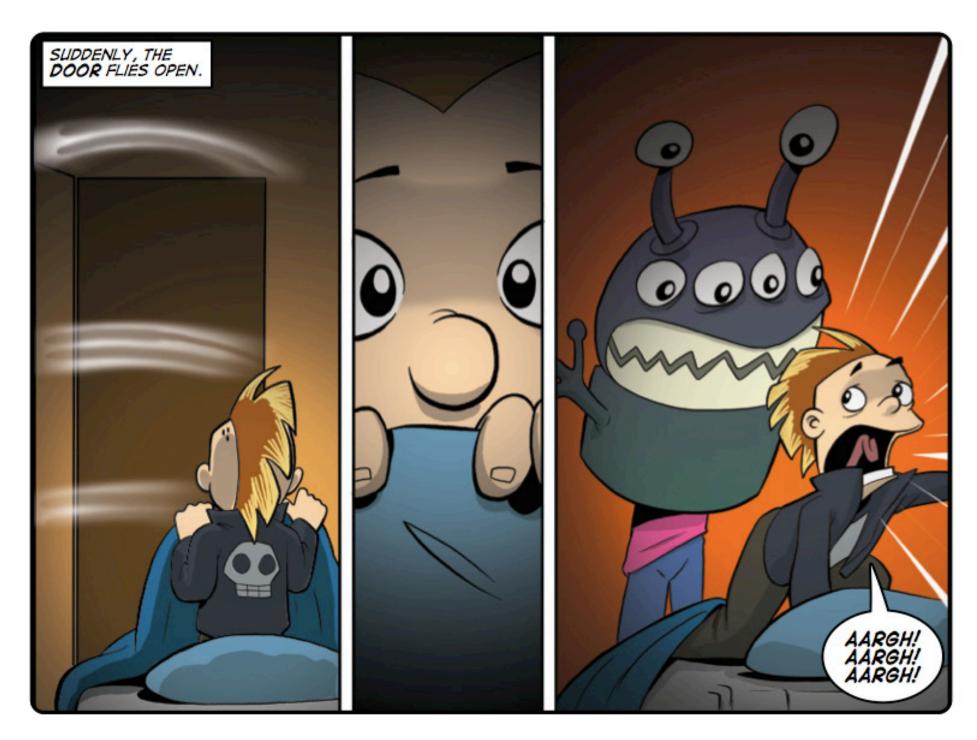


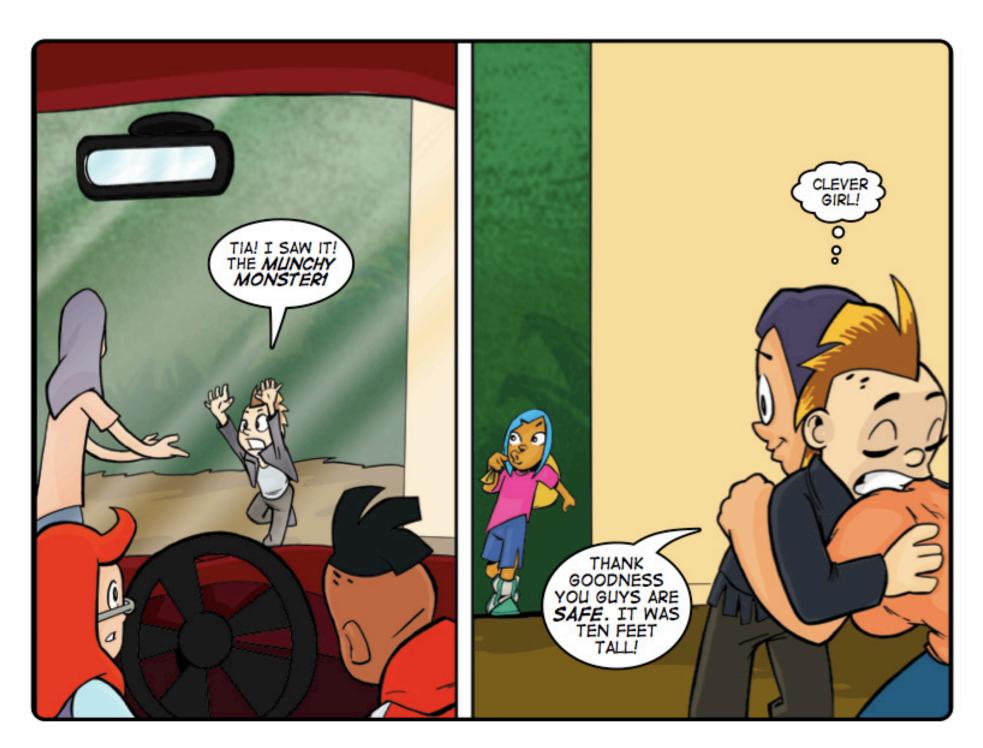


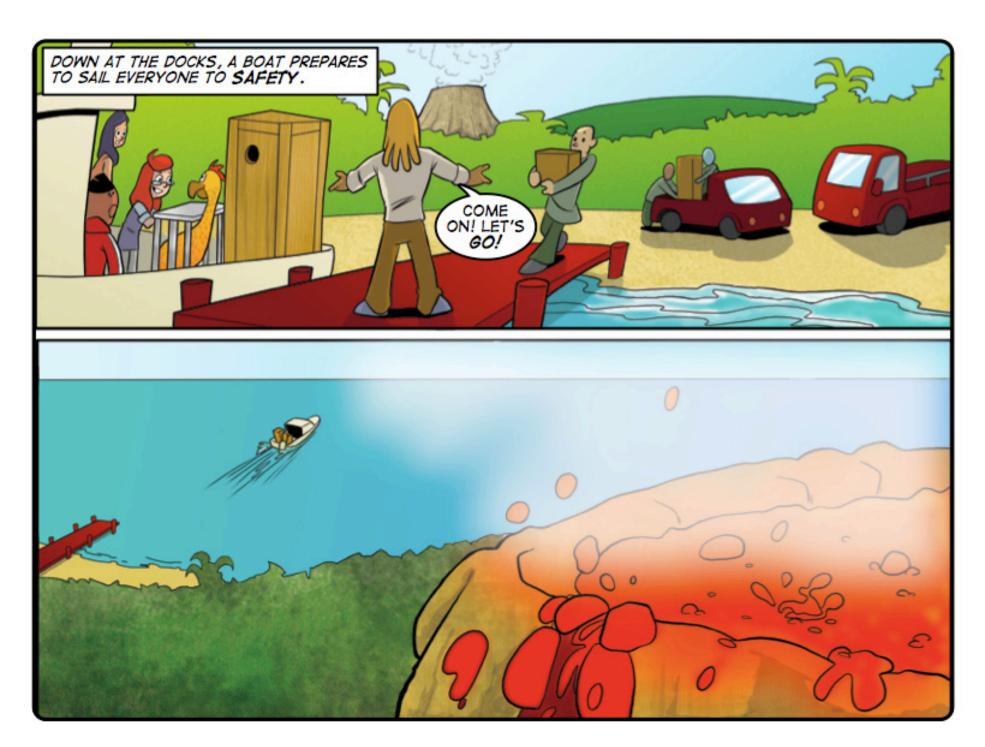


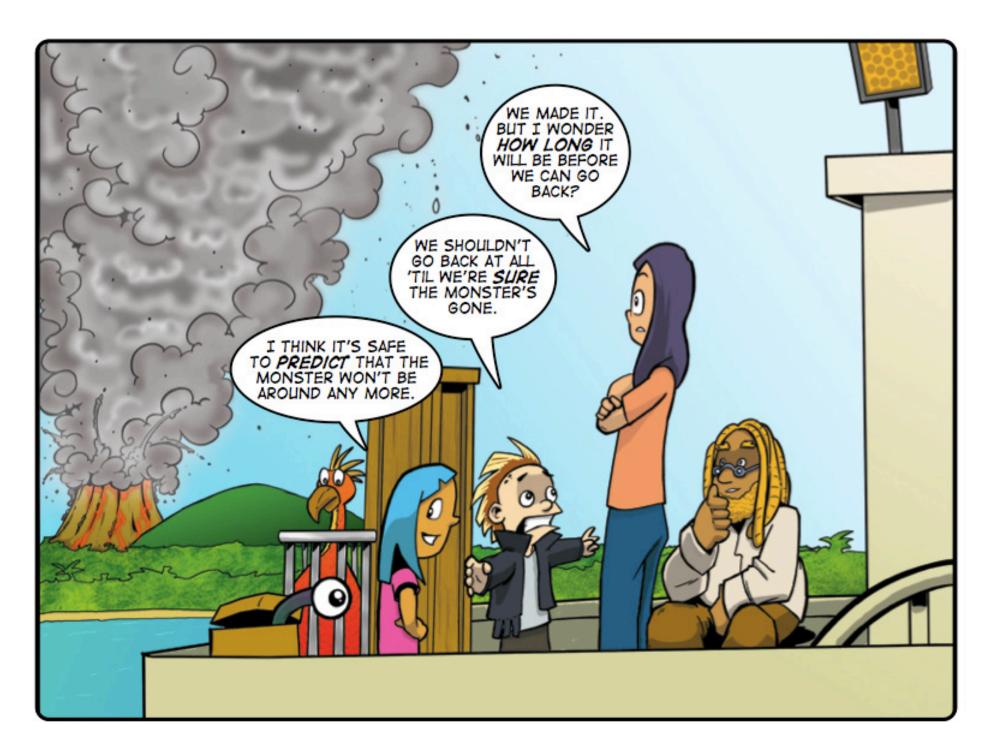


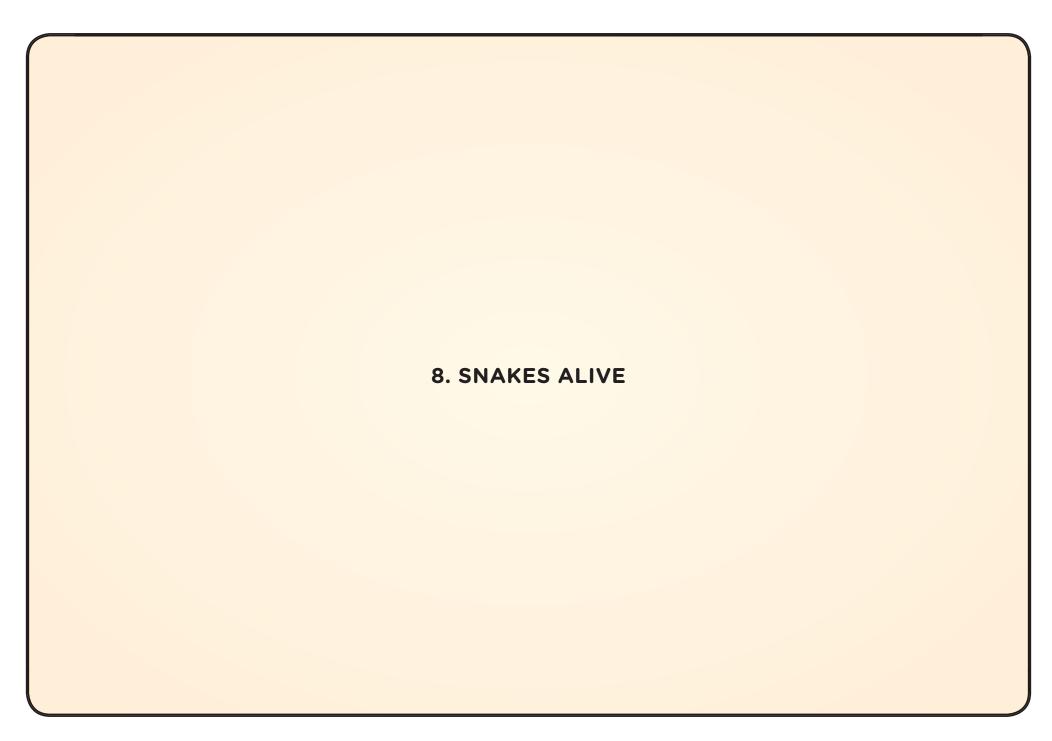


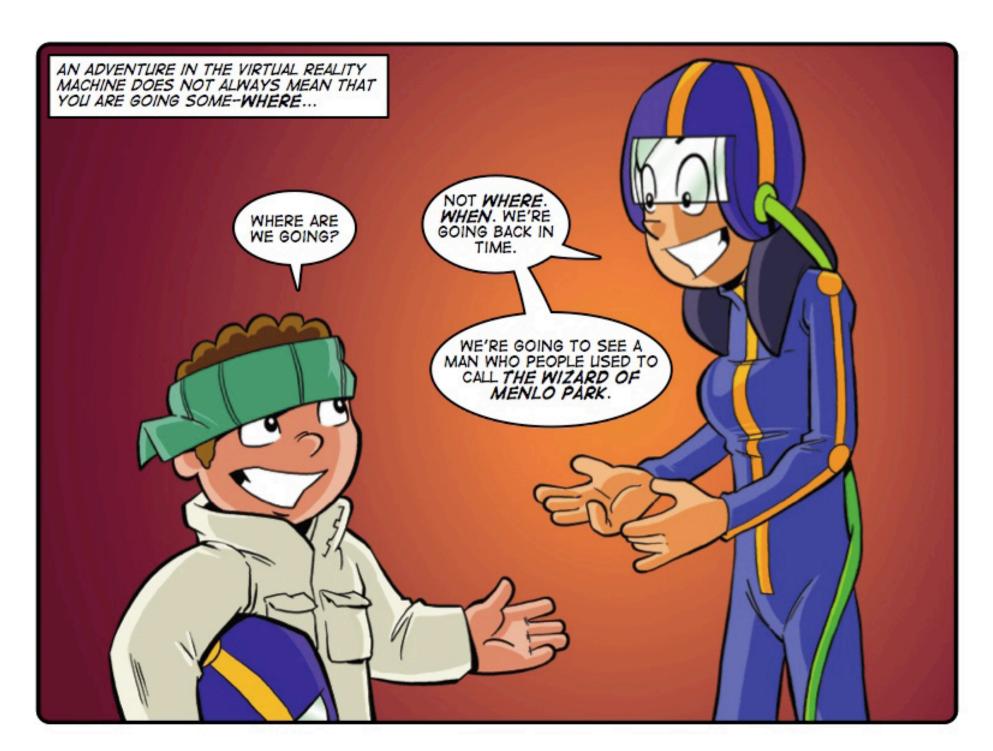








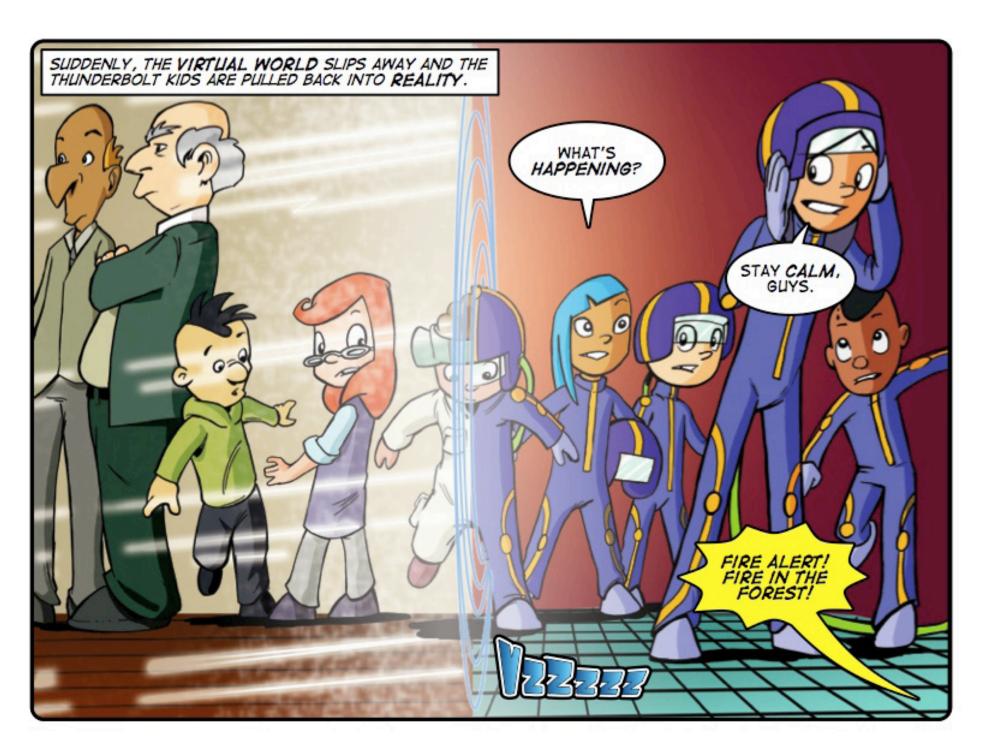


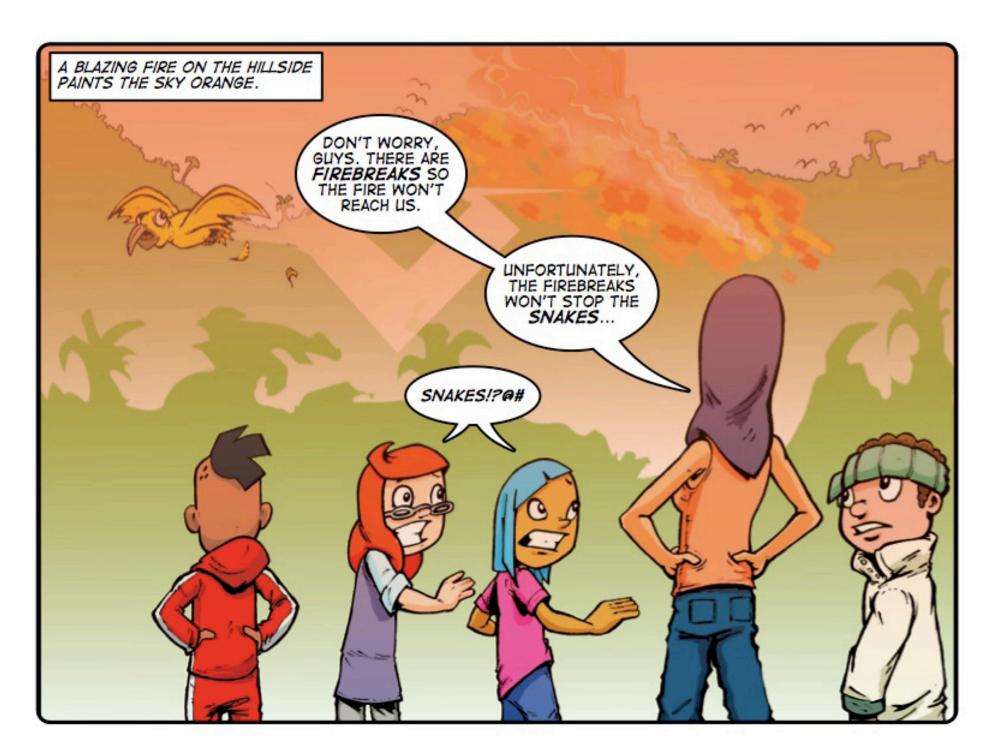


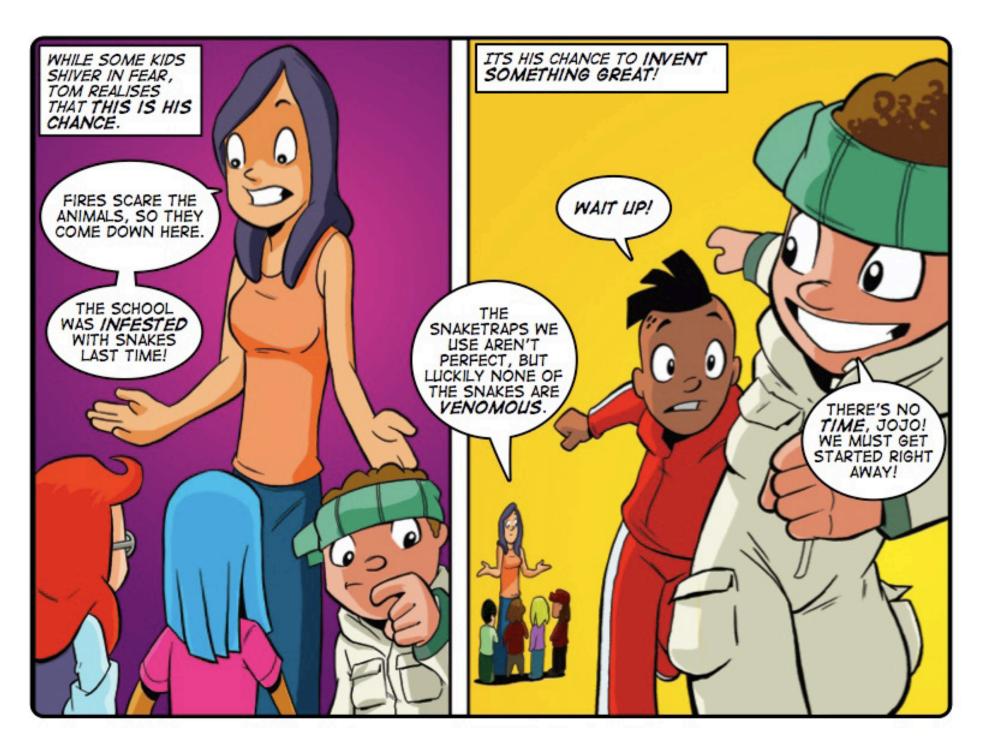




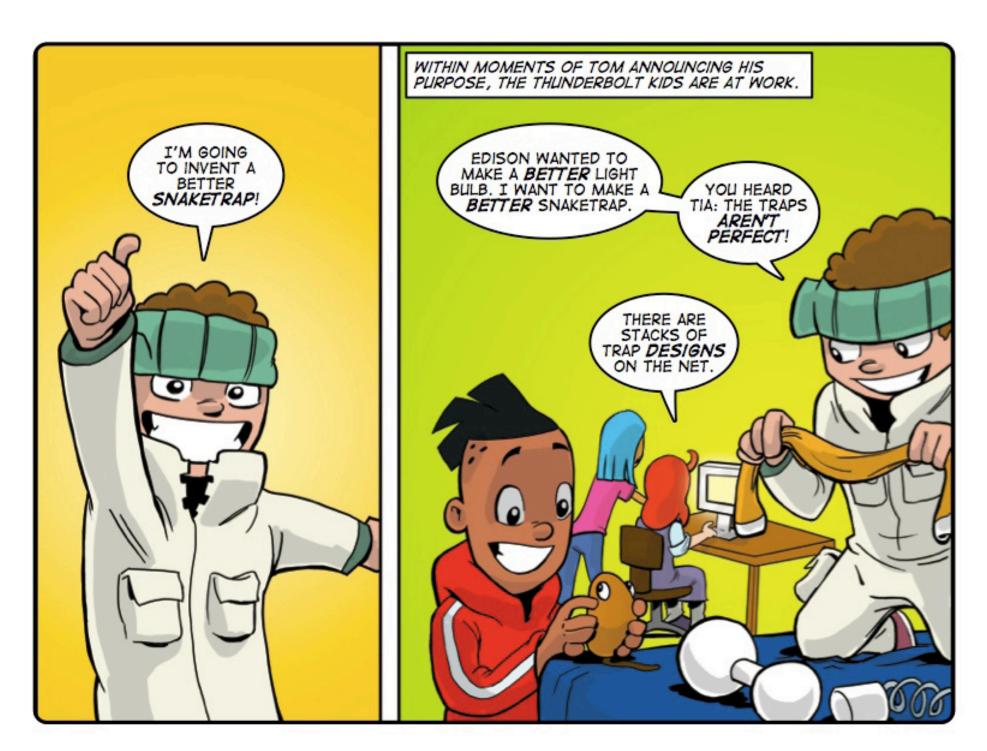


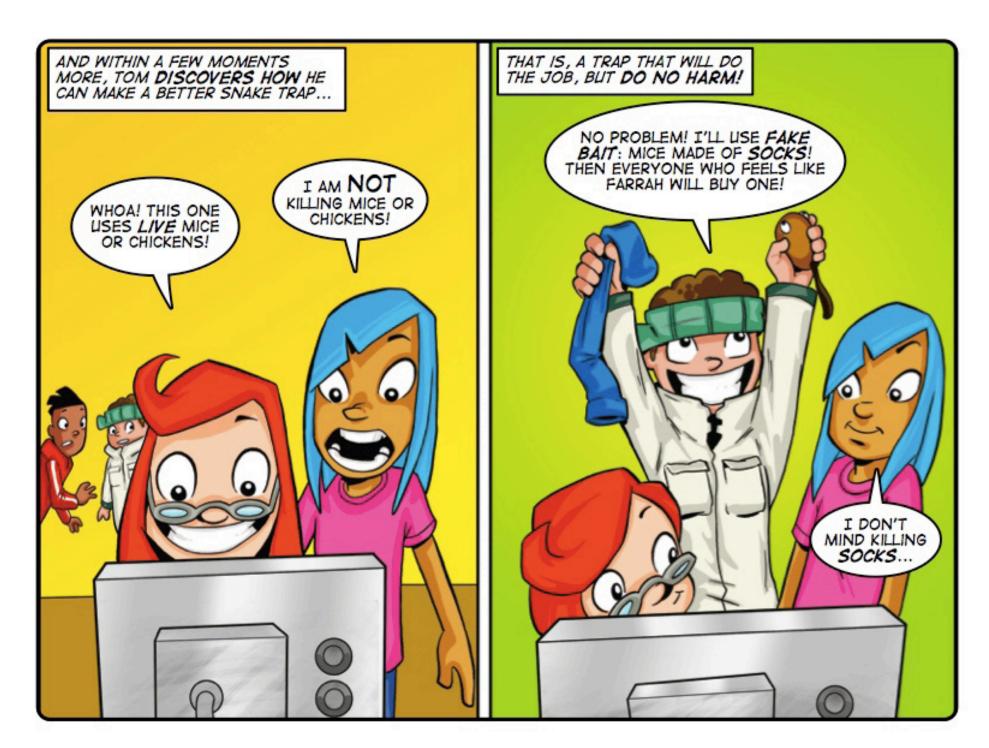


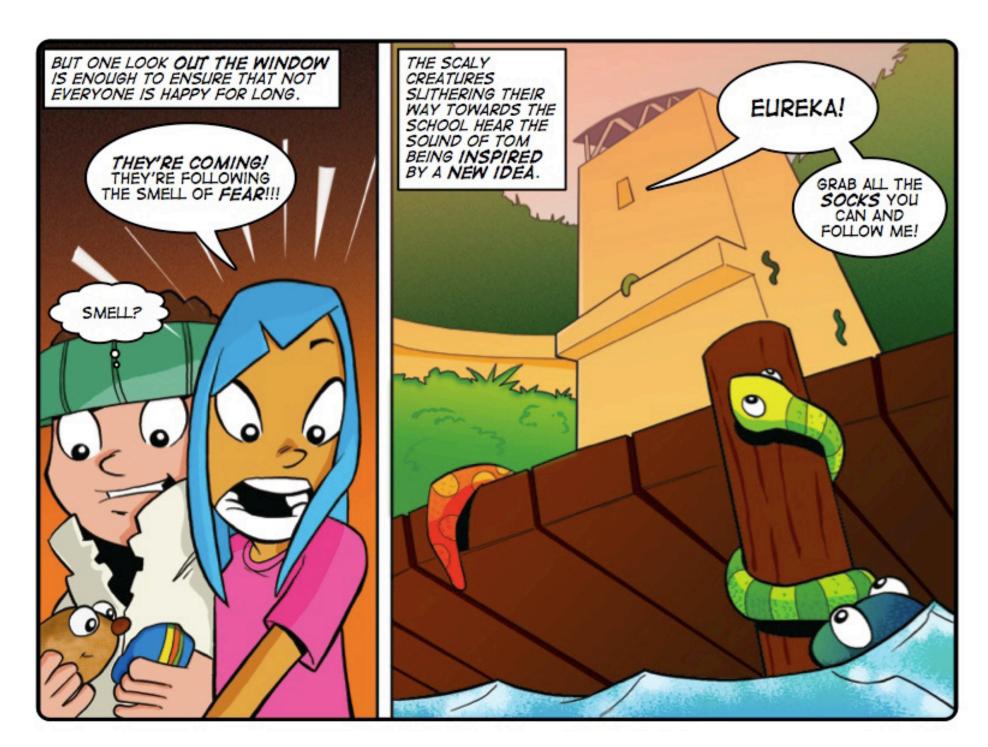


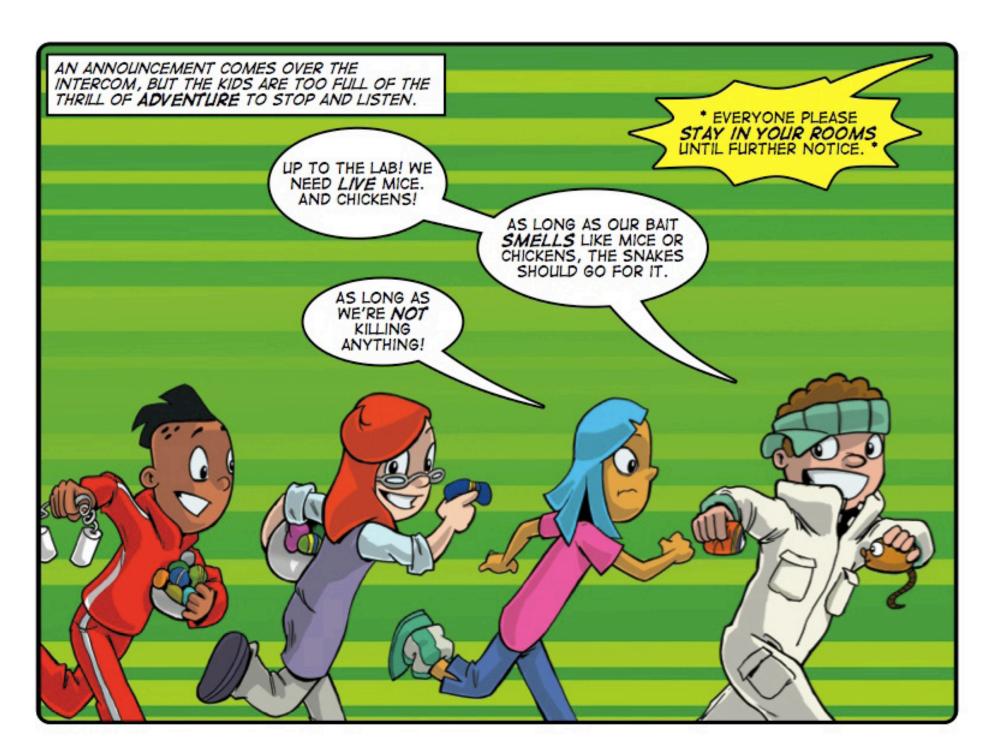


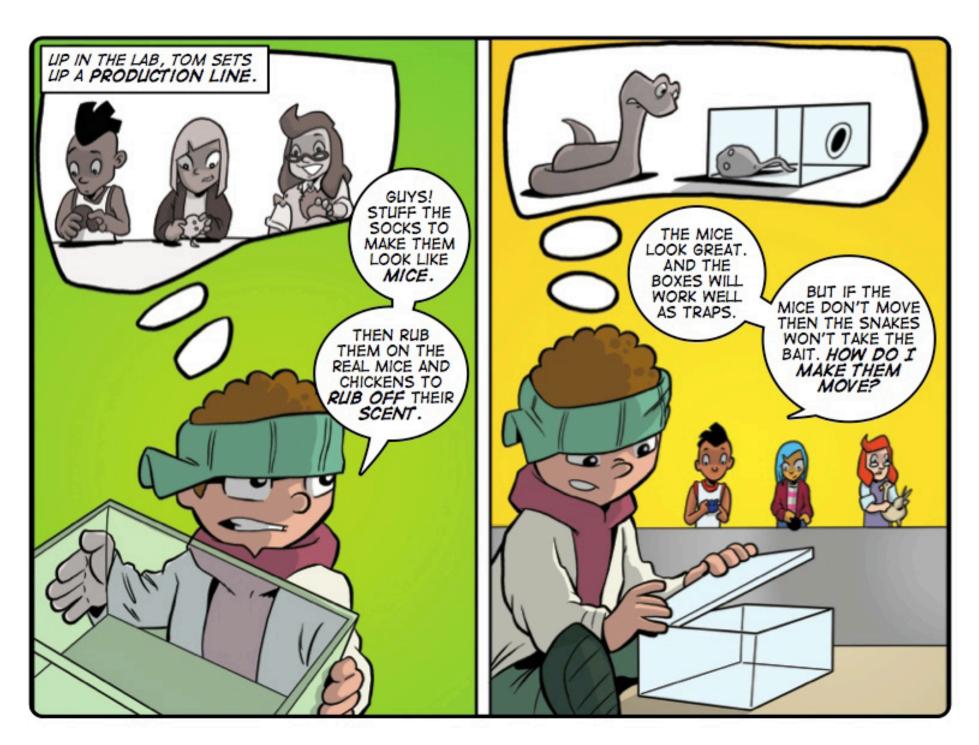




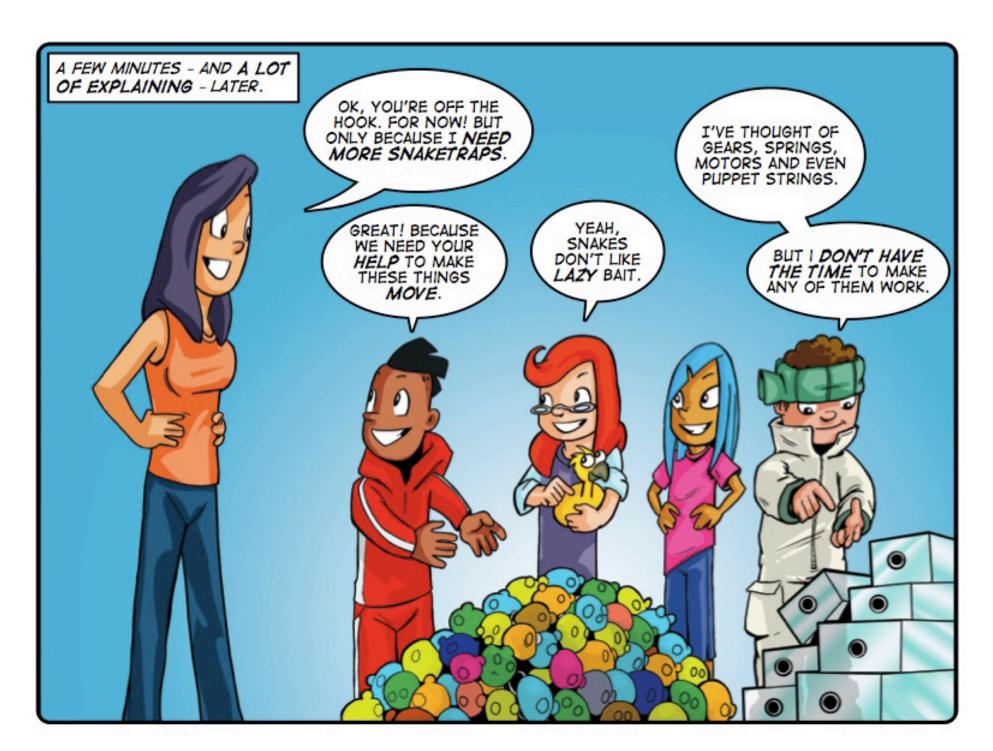


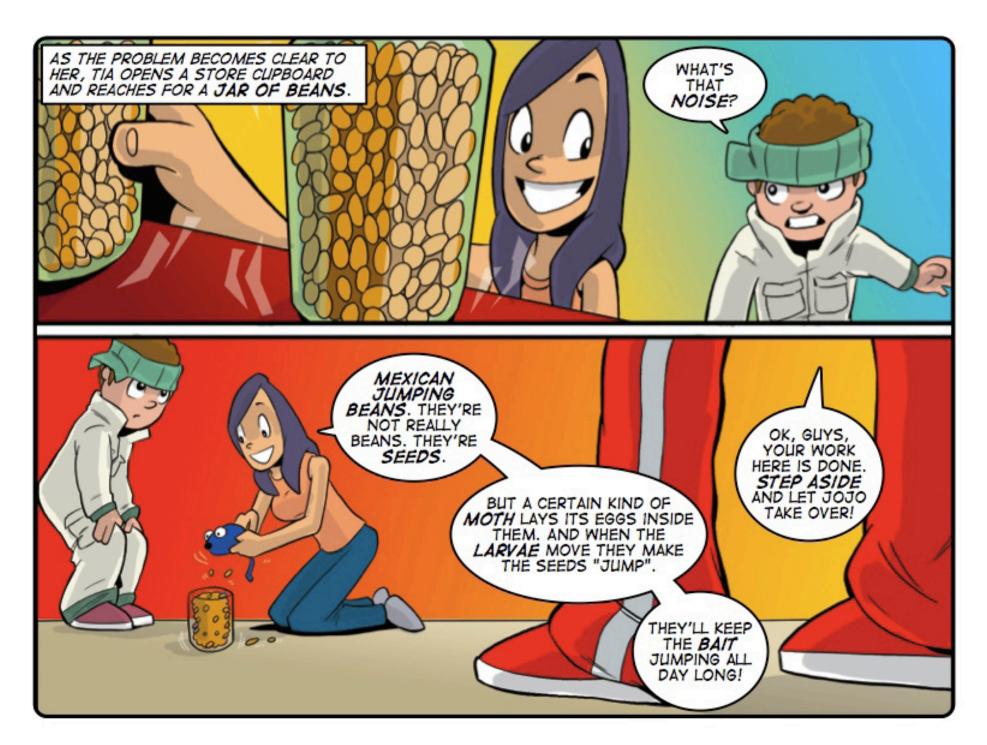


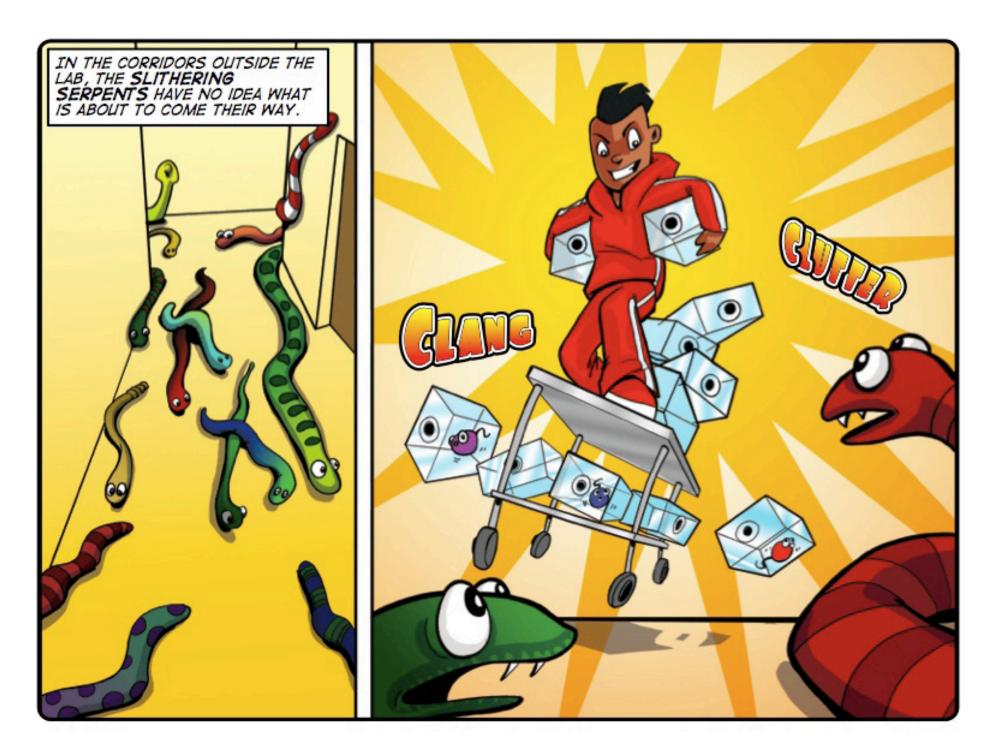


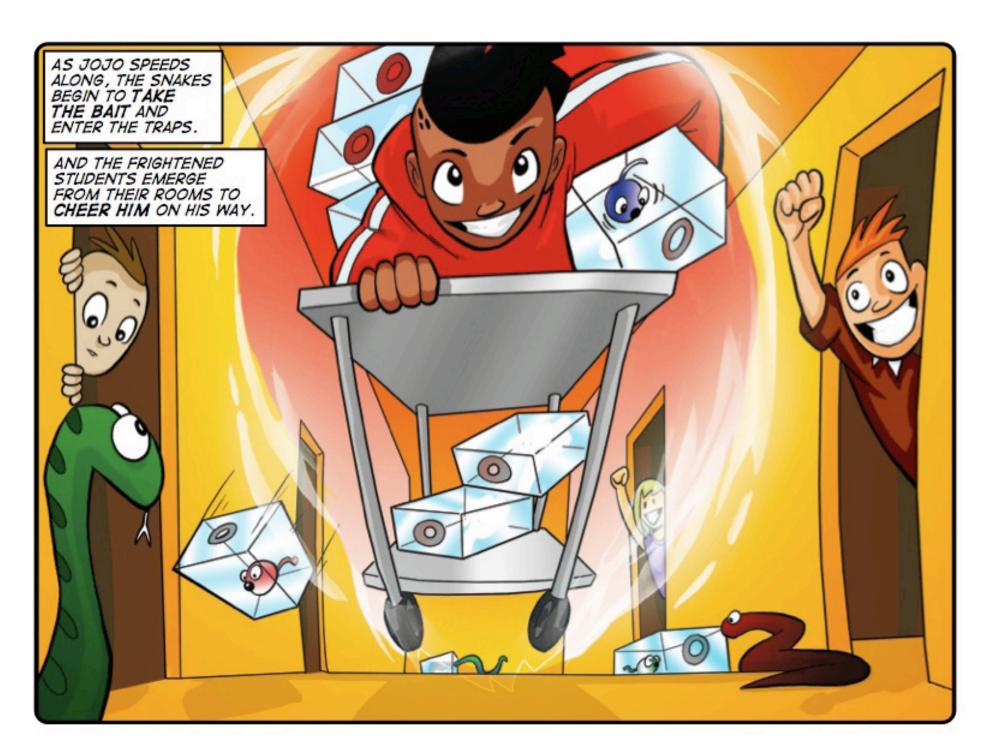


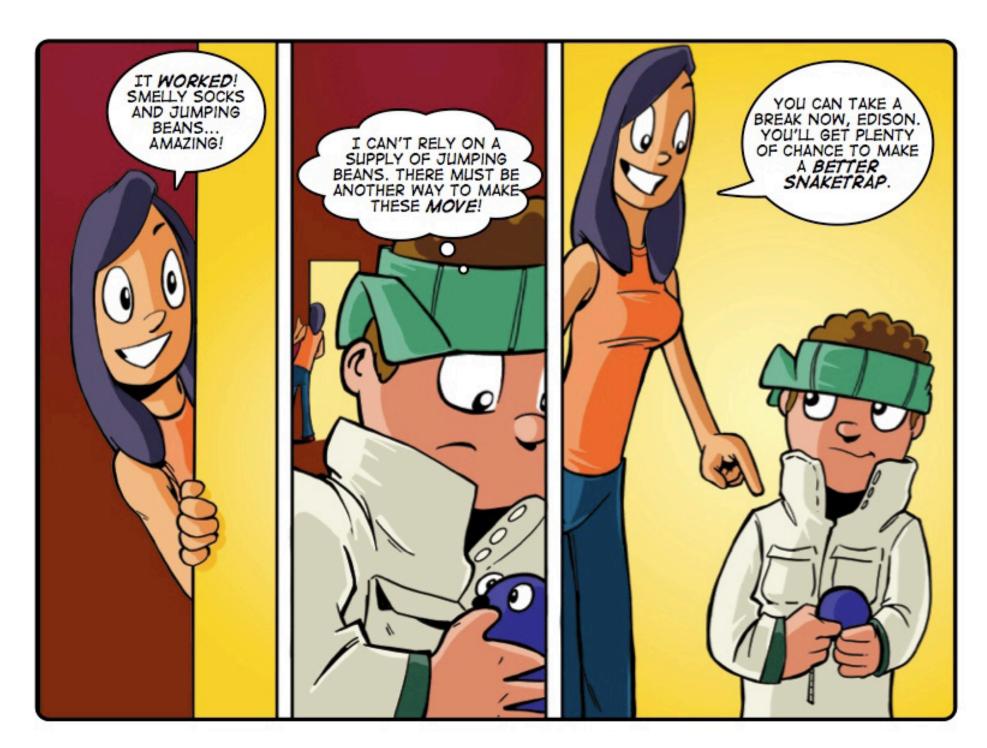


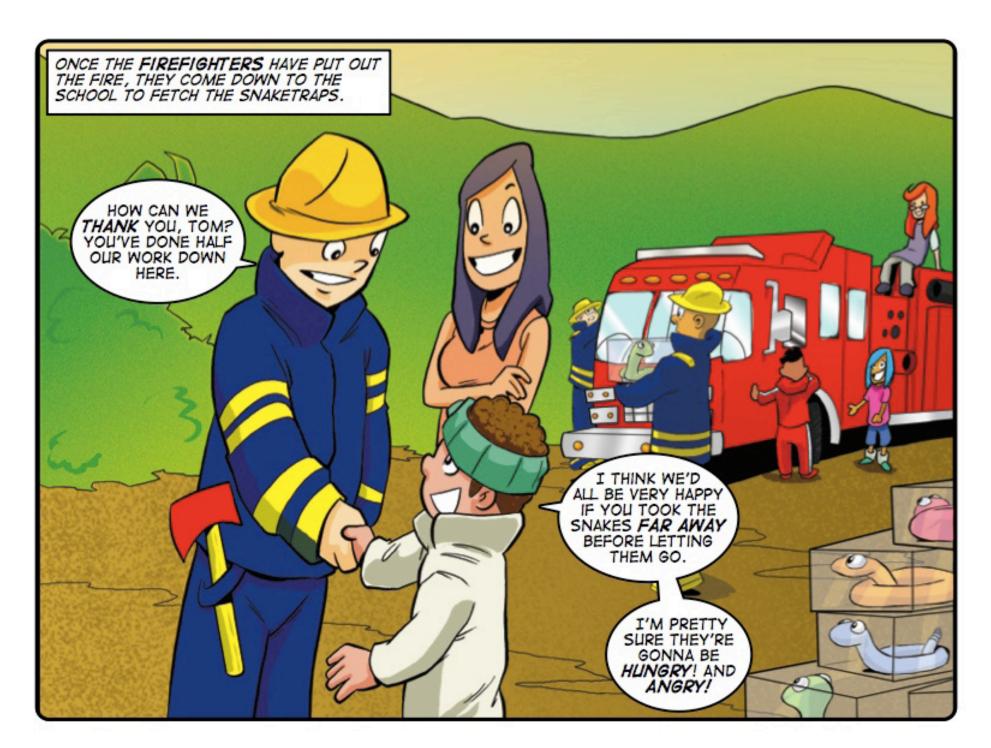














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