Employee Expectations
and
Toy Design Handbook
Our Company Vision:
To create innovative and creative toys out of recycled materials which do not require batteries or electricity.

The TTT Customer:
Our customers will be people who are purchasing toys for children at least 4 years of age. Our customers will be adults who want to:

- donate toys to underprivileged children who may not have access to batteries or electricity.
- encourage their own children to play with toys that are more environmentally-friendly.

Our Employee Expectations:
The TTT Board of Directors are looking for employees who:

1. Provide a detailed proposal outlining their toy designs.

2. Make thoughtful and creative design choices to meet the criteria of each task.

3. Contribute co-operatively and enthusiastically to their group’s toy development.
Twisted Trio Toys has noticed that marbles are making a big come-back – they are becoming very popular because they are affordable toys that can be used for many different games.

As part its new Summer Toy Series, TTT would like you to design a marble track that moves marbles from its beginning to end without any human intervention.
This proposal is being submitted for Toy Design Task #1 (Design a Marble Track)

The __________________________ we are going to create will be:

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A drawing-ish of the proposed toy design is:
The **materials** needed for this toy design are:

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The **simple machines** incorporated into the design are:

- [ ] Levers
- [ ] Pulleys
- [ ] Inclined Plane
- [ ] Wedge
- [ ] Wheels and Axle
- [ ] Gears
- [ ] Rollers
Each person on our team is responsible for contributing to our project. **My main role is:**

______________________________________________________________________________

______________________________________________________________________________

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**Tasks I will need to do** to complete my role:

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Twisted Trio Toy customers have been asking for an alternative to remote controlled vehicles. Customers have expressed concern that throwing away so many used batteries is bad for the environment, and they would like an eco-friendly alternative.

To address customer concerns, TTT executives have asked you to design a self-propelled toy vehicle that moves forward at least 2 m and does not use batteries or electricity.
This proposal is being submitted for Toy Design Task # 2 (Design a Self-Propelled Toy Vehicle)

The __________________________________________ we are going to create will be:

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A drawing-ish of the proposed toy design is:
The **materials** needed for this toy design are:

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- [ ] Levers
- [ ] Pulleys
- [ ] Inclined Plane
- [ ] Wedge
- [ ] Wheels and Axle
- [ ] Gears
- [ ] Rollers
The power source used is:

- Wind
- Water
- Gravity
- Elastic bands
- Other: _________________________________________________________________

Each person on our team is responsible for contributing to our project. My main role is:

_________________________________________________________________________
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Tasks I will need to do to complete my role:

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TTT marketing research has shown that parents want a speed control mechanism to slow down self-propelled toys – this speed control system will help to make the vehicles safer.

Modify your self-propelled toy design to include a speed control system.
This proposal is being submitted for Toy Design Task # 3 (Add Speed Control System to Self-Propelled Vehicle)

The __________________________________________ we are going to create will be:

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The **power source** used is:
- [ ] Wind
- [ ] Water
- [ ] Gravity
- [ ] Elastic bands
- [ ] Other: ________________________________________________________________

We have incorporated a **braking system**:
- [ ] Yes
- [ ] No
- [ ] Not applicable

Each person on our team is responsible for contributing to our project. **My main role is:**

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**Tasks I will need to do** to complete my role:

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Twisted Trio Toy executives have expressed interest in creating deluxe toy packages to expand their customer base. They would like to save money by re-purposing existing toy designs to make a new product.

Create a **Deluxe Marble Play Set** by **repurposing** your marble track design to **load marbles** into your self-propelled toy vehicle.
Use this form to give your fellow TTT employees some feedback to help them with Toy Design Task #4.

They __________________ really well because ______
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________

They showed a lot of __________________ by
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________

One area that could be improved is: ____________________________________.
                                                                 __________
This could be improved by
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________

Wow! This group made an awesome:
                                  ____________________________________

This modification would improve the project because:
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
                                  ____________________________________
This proposal is being submitted for Toy Design Task # 4 (Design a Deluxe Marble Play Set)

The ______________________________________ we are going to create will be:
______________________________________________________________________________
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A drawing-ish showing the changes to our marble track and vehicle designs to meet this task:
The materials needed for this toy design are:

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- Wedge
- Wheels and Axle
- Gears
- Rollers
The **power source** used is:

- Wind
- Water
- Gravity
- Elastic bands
- Other: _________________________________________________________________

We have incorporated a **braking system**:

- Yes
- No
- Not applicable

Each person on our team is responsible for contributing to our project. **My main role is:**

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**Tasks I will need to do** to complete my role:

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