Autism:

For Children With

Incentive Device

Exercise

Foundation for Learning This
Thank the National Science
Day of Inquiry, we would also like to
Center for Learning and Mindful
faculty panel members, Dr.
and Loraine McGuire, our
department staff John Sullivan,
biomedical engineering
advisor, Dr. David Rice,
our team would like to thank our

Acknowledgements

- Provide teacher feedback
- Avoid negative sensory reaction
- Establish independence
- Establish self-confidence and
- Familiarity with
- The design elements of students are
- Provide rewards for correct use
- Establish feeling of security
- Minimize noise

Specific Design Goals

- Stimuli
- Unusual response to sensory
- Restricted behavior
- Sameness

Autism Characteristics of Children With

Classroom sections into stations
- Limited skill
- Independence
- Students with wide range of
  (ages 8-12)
- Upper-elementary classroom

Disorders

Children with autism and related
LA specializations in the education of
The Chartwell Center in New Orleans

Our Client: The Chartwell Center

Design Considerations
Seat Modifications

Require additional restraint to students who
An optional harness provides

Restrainment

Safety Features

Incentive Console

Jack: music players through a headphone

The console will accept a variety of

The set time is reached music will stop.

Use: music will play, if pedaling stops or

When the light is green, indicating correct

Lighting feedback will reinforce correct

The seat back, coordination with the

Play through headphones attached to

As a reward for correct use, music will

Auditory Feedback

New Exercise Bike - $1,000

Modifications Kit - $300

Alternative to replacement, equipment and can serve as an

effective way to update old

Our modification kit provides a cost

elementary classrooms.

could be easily used in all

designed for children with autism.

Although our exercise bike was

Promotes a healthy lifestyle.

oppose the physical activity

of exercise, the risk of becoming

According to the National Health

Growing Problem...

Childhood Obesity is a

Marketable