

AASB/APEI Maintenance Employees





About me...



- Degree in Architectural Drafting
 Degree in Construction Technology
- 21 year Air Force career Construction Management
- Has been with Exerplay since 2007
- Covers all of Alaska
- 15 year CPSI (Certified Playground Safety Inspector)



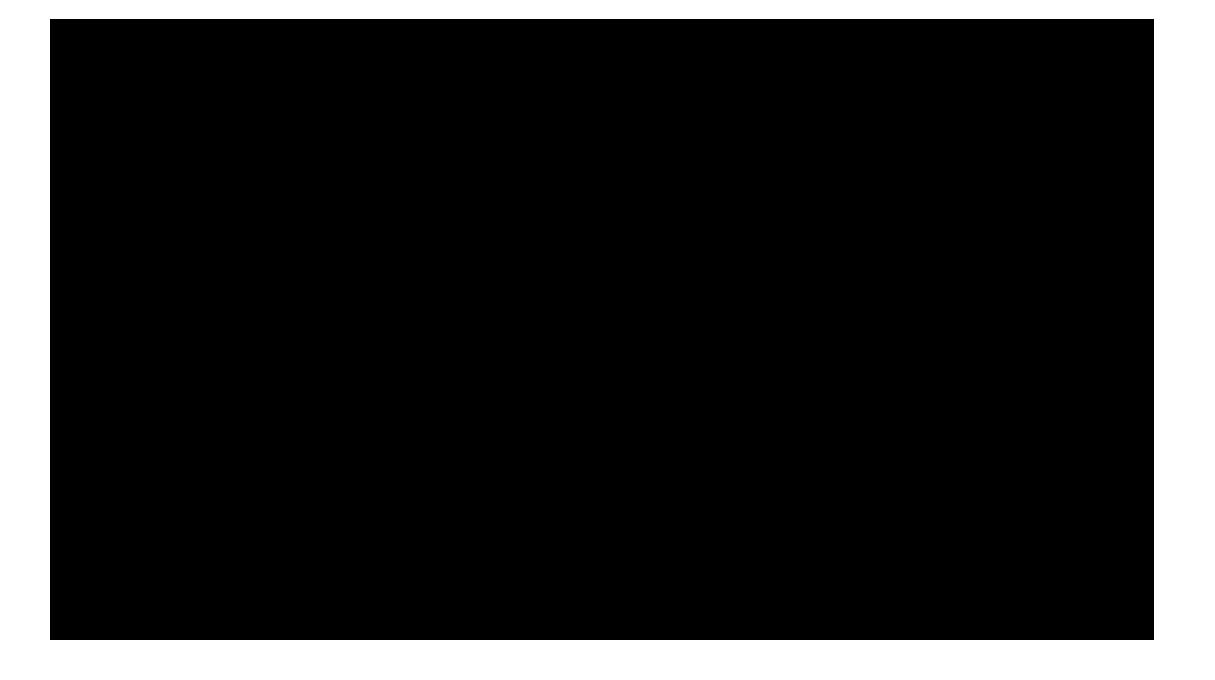
THE BENEFITS OF PLAY.

Play allows children to use their creativity while developing their imagination, dexterity, and physical, cognitive, and emotional strength. Play is important to healthy brain development. It is through play that children at a very early age engage and interact in the world around them.

http://pediatrics.aappublications.org

Kenneth R. Ginsburg and the Committee on Communications, and the Committee on Psychosocial Aspects of Child and Family Health







WHAT DID YOUR GRANDPARENTS PLAY ON?



















WHAT DID YOU PLAY ON AS A KID?















TODAY'S PLAYGROUNDS ARE SAFER THAN EVER...THEN WHY PLAYGROUND SAFETY?

Each year it is estimated that 200,000 playground related injuries are serious enough to require emergency room treatment.



Fifteen of these injuries will result in death.



INJURIES ON A PLAYGOUND

THE LEADING CAUSE OF INJURY ARE FALLS TO THE SURFACE.



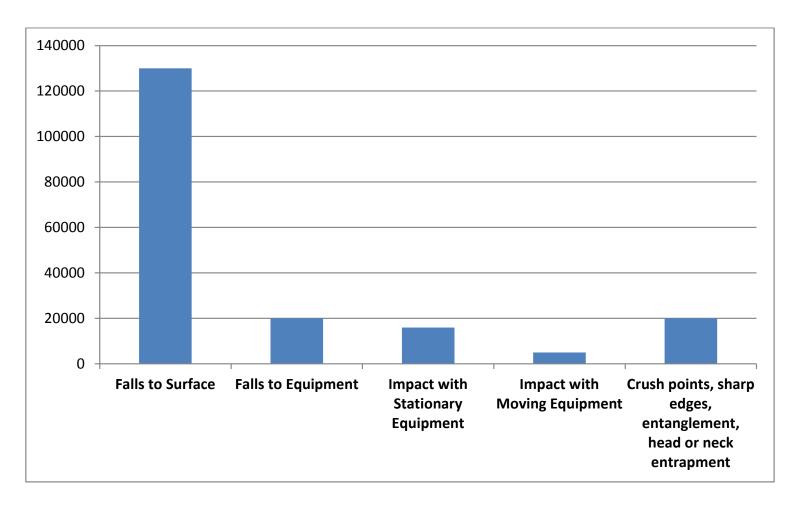
THE LEADING CAUSE OF DEATH IS STRANGULATION.

Dangers of "hoodies"

Strings and cords in hooded sweatshirts and jackets, popularly known as "hoodies," should be removed when worn by young children because of the risk of getting caught on playground equipment, bus doors or cribs, according to the U.S. Consumer Product Safety Commission, which prohibits the sale of such children's clothing.

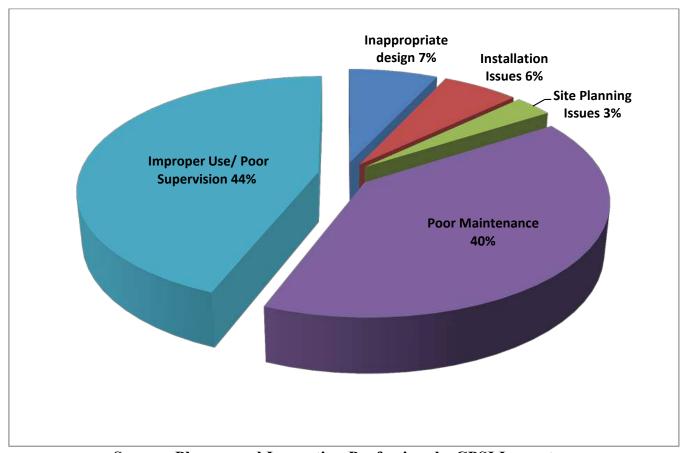


Injuries on Playground Equipment by percentage:



Source: Playground Inspection Professionals, CPSI Inspectors
Playgroundinspectionpros.com

How Kids Get Hurt:



Source: Playground Inspection Professionals, CPSI Inspectors Playgroundinspectionpros.com



AMERICAN STANDARD FOR TESTING AND MATERIALS (ASTM)

ASTM F1487: Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

ASTM F2373: Standard Consumer Safety Performance Specification for public use play equipment for children 6 months through 23 months. **ASTM F 1292**: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment

ASTM F 1951: Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment





CONSUMER PRODUCT SAFETY COMMISSION (CPSC)

The U.S. Consumer Product Safety Commission's ("CPSC" or "Commission") Public Playground Safety Handbook was first published in 1981 under the name A Handbook for Public Playground Safety. The recommendations in the Handbook are focused on playground-related injuries and mechanical mechanisms of injury.



INTERNATIONAL PLAY EQUIPMENT MANUFACTURERS ASSOCIATION

To establish procedures for a third party certification program in which a designated independent laboratory validates a manufacturer's certification of conformance to the CSA Z614, ASTM F1487(Play Equipment) or F1292 (Surfacing) Standard.

These procedures require the inspection and validation of a manufacturer's personnel, facilities, methods and documentation as well as the testing of specific products.









NATIONAL PLAYGROUND SAFETY INSTITUTE (NPSI)

To train and educate those involved in the design, management, installation or maintenance about the safety hazards associated with public playgrounds.

To be a CPSI, an individual must be able to test and identify, as well as prioritize remedial efforts of potential safety hazards as identified in the CPSC Guidelines and the ASTM Standards.

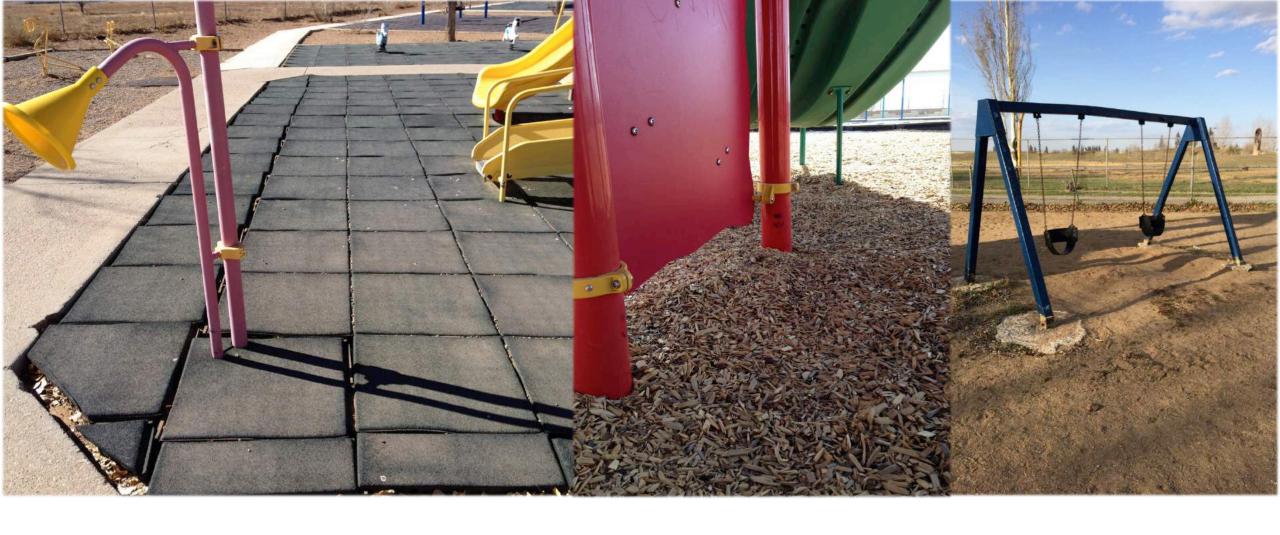


The Dirty Dozen: 12 Playground Hazards

- 1. Improper Surfacing
- 2. Inadequate Use Zones
- 3. Entrapment in Openings
- 4. Protrusions and Entanglement Hazards
- 5. Platforms with no Guardrails or Barriers
- 6. Crush and Shear Points

- 7. Insufficient Equipment Spacing
- 8. Trip Hazards
- 9. Age-Inappropriate Activities
- 10. Lack of Maintenance
- 11. Lack of Supervision
- 12. Equipment not recommended for playground use





#1. Improper Surfacing





#1. Improper Surfacing





POURED-IN-PLACE





ARTIFICIAL TURF





PLAYGROUND TILE





RUBBER MULCH





ENGINEERED WOOD FIBER





PLAYGROUND SAND





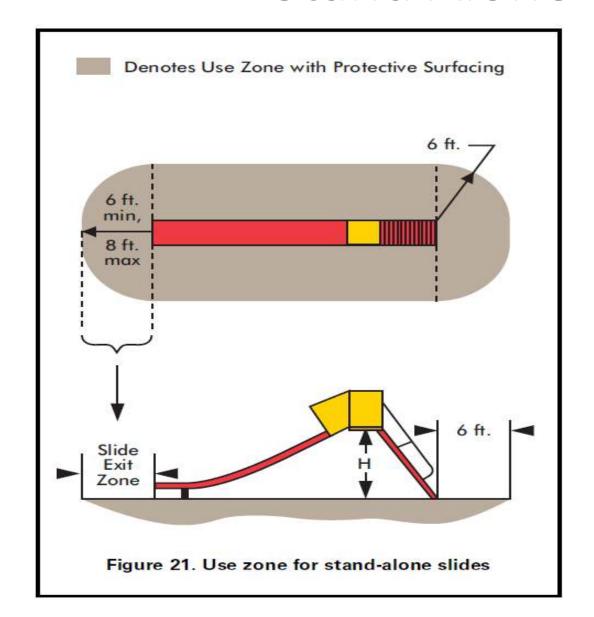
IMPACT ATTENUATION — SURFACING TESTING METHODS



#2. INADEQUATE USE ZONES

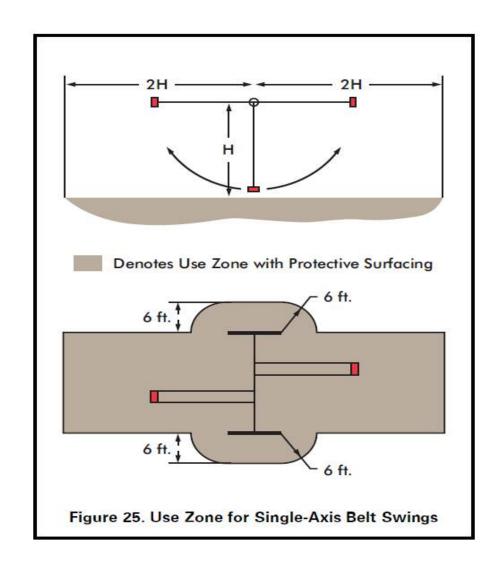


Stand Alone Slides





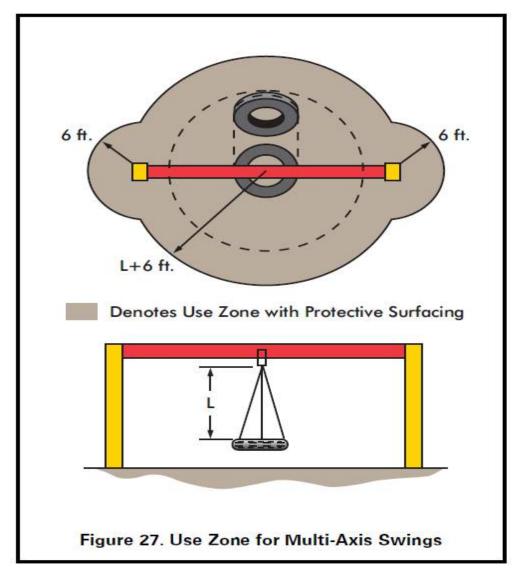
Single Axis Swings



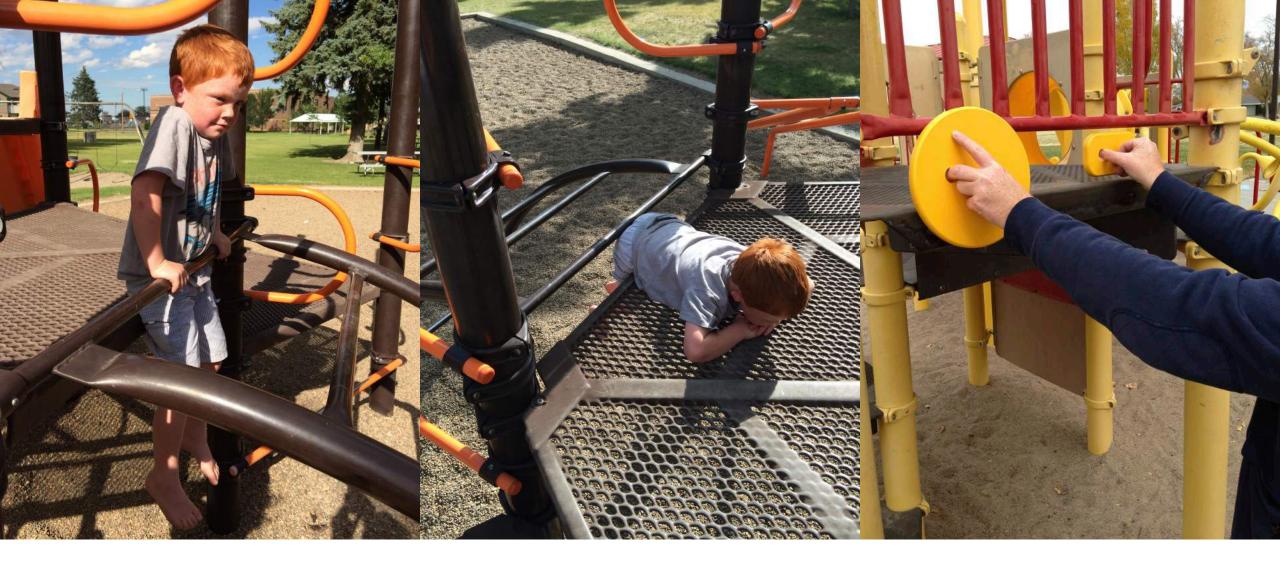
NOTE: H for tot swings measured to bottom of seat.



Multi Axis Swings

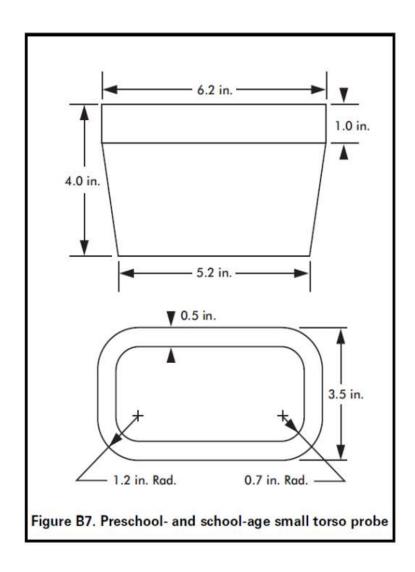


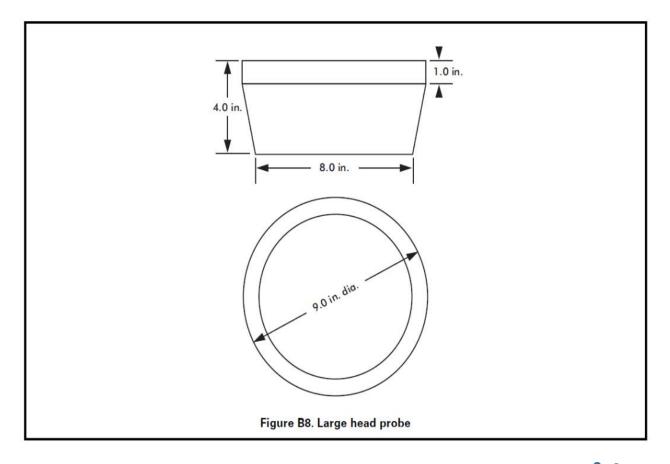




#3. ENTRAPMENT IN OPENINGS

Head Entrapment Test Probes









#4. PROTRUSIONS AND ENTANGLEMENT HAZARDS

Examples of protrusion and entanglement hazards include:

- Bolt ends that extend more than two threads beyond the face of the nut
- Hardware configurations that form a hook or leave a gap or space between components
- Open "S" type hooks
- Rungs or handholds that protrude outward from a support structure capable of penetrating the eye socket

Pay Special Attention to:

The area at the top of slides and sliding devices.

Protruding hardware and gaps that may hook and catch clothing.

Ropes should be anchored securely at both ends, and incapable of forming a loop or a noose.

PROTRUSIONS AND ENTANGLEMENT HAZARDS

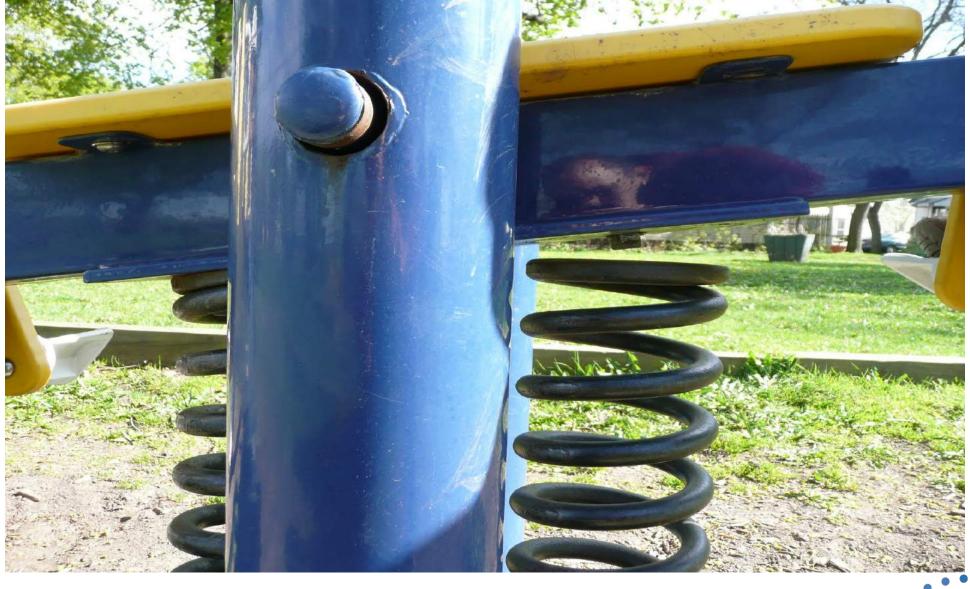


#5. PLATFORMS WITH NO GUARDRAILS OR....
BARRIERS



#6. CRUSH AND SHEAR POINTS











#7. INSUFFICIENT EQUIPMENT SPACING













#8. TRIP HAZARDS

















#9. AGE-INAPPROPRIATE ACTIVITIES





#10. LACK OF MAINTENANCE





LACK OF MAINTENANCE





LACK OF MAINTENANCE





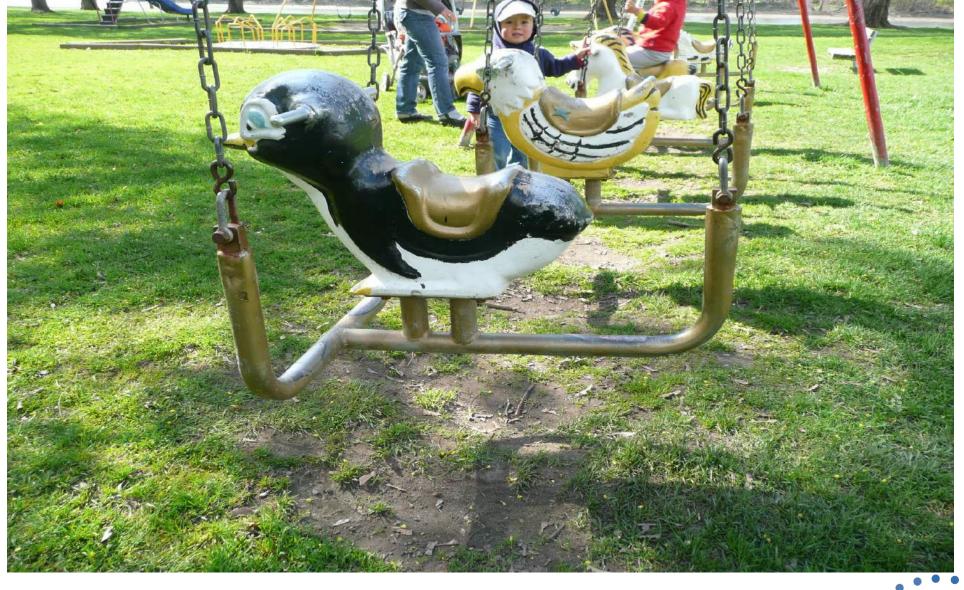
#11. LACK OF SUPERVISION













International Playground Equipment Manufacturers Association (IPEMA)
The Dirty Dozen is presented in partnership with IPEMA
www.ipema.org

American Society for Testing and Materials International (ASTM) www.astm.org

U.S. Consumer Product Safety Commission (CPSC)
For a free copy of the Consumer Product Safety Commission's Handbook for Public Playground Safety (No. 325), contact: 800.638.2772
www.cpsc.gov

TOOLS AND RESOURCES







TOOLS AND RESOURCES







A WARNING

Playground equipment and/or surfacing in direct sunlight may reach temperatures high enough to cause serious burn injuries within seconds. Supervisors should check for hot play surfaces and/or surfacing before letting children play.

Label by S.P., Inc. ©

WARNING

EQUIPMENT OVER AN EXPOSED HARD SURFACE SUCH AS CONCRETE, ASPHALT OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

Label by S.P., Inc. O

TOOLS AND RESOURCES



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Community Action In	c. of Hays, Caldwell &	Blanco Counties	- Head Start
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Center	Date	Completed By	

PLAYGROUND MAINTENANCE CHECKLIST

Trai	tructions: Check the entire playground at least once each month, n all staff to be alert to playground hazards and report them promptly. Avoid use of the hazardous equipment until repaired.	Item OK	Identify Repair Needed	Date Repaired
1.	Is there 6 inches of resilient ground cover* under all swings, slides and climbing equipment. Is it compacted or out of place? (* pea gravel, shredded wood)		House	nopalie
2.	Are there foreign objects or obstructions in the fall zone under or around fixed equipment?			
3.	Are there obstructions to interfere with normal play activity?			* 10
4.	Are there climbing areas that would allow children to fall more than their reaching height when they stand erect?			
5.	Are concrete supports sticking above the ground? Are they secure?			
6.	Are there sharp edges, broken parts, pinching actions or loose bolts?			
7.	Are there openings that could trap a child's head?			
8.	Are there frayed cables, worn ropes, open hooks or chains that could pinch?			
9.	Are timbers rotting, splitting, termite infested, or excessively worn?			
10.	Are portable toys such as tricycles and wagons in good repair?			
11.	Are there protrusions that could catch clothing?			
12.	Are there crush points or shearing actions such as hinges of seesaws and undercarriages of revolving equipment?			
13.	Are swinging seats loose, worn or excessively heavy?			
14.	Is the fence in good repair and at least 4 feet high in all places? Can gates be secured so that children can not open them?			
15.	Are there electrical hazards on the playground that children can gain access to? (air conditioners, switch boxes, power lines)			
16.	Is there anywhere that water stands or collects?			
17.	Are there toxic materials on the playground?			
18.	Do the grass, trees or shrubs need care?			
19.	Is there any other hazard that needs to be corrected? Please describe:			

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THANK YOU!

