#### Prevalence and Perceived Impact of Authentic Assessment

#### Mintah Physical Education Authentic Assessment Inventory (2003)

- Prevalence of Authentic Assessment in PE
- Perceived Impact and Effectiveness

#### Mintah Physical Education Authentic Assessment Inventory (2003)

For the purpose of this study, authentic assessment is defined as assessment tasks that use multiple scoring systems to measure students' habits and repertoires on significant tasks related to <u>life outside the classroom</u>. This definition includes but is not limited to the following assessment techniques: teacher observation of student performance, portfolios, student projects, written essays, student exhibitions, and peer observation.

Do you presently use any authentic assessment techniques in your classes?

- Yes
- No

#### Mintah Physical Education Authentic Assessment Inventory (2003)

- Prevalence of Authentic Assessment in PE
  - A. Frequency of Use (15 techniques)
    - 5 point Likert Scale; Always Use Never Use
- Perceived Impact and Effectiveness
  - B. Perceptions of impact of use on Students':
    - 1. Self-Concept
    - 2. Motivation
    - 3. Skill Achievement

#### 15 Authentic Assessment Techniques

1. teacher observation

2. peer observation

self-observation
 checklists

5. event tasks6. student log

7. demonstration/ exhibitions 8. written essays

9. portfolio
 10.parental report

11.student projects

12.anecdotal record 13.video tape

14.oral discourse

15.others

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#### Self-Concept Subscale

Below is a series of statements about authentic assessment. Please indicate the extent to which you agree or disagree with each statement by circling the appropriate mark to the right of each statement.

#### Scale:

 $5 = \text{strongly agree} \qquad 4 = \text{agree} \qquad 3 = \text{disagree} \qquad 2 = \text{strongly disagree}$ 

 As a result of authentic assessment, students appear less confident in class.

5 4 3 2

 As a result of authentic assessment, students are more willing to try new things.

5 4 3 2

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#### **Motivation Subscale**

Below is a series of statements about authentic assessment. Please indicate the extent to which you agree or disagree with each statement by circling the appropriate mark to the right of each statement.

4 = agree 3 = disagree 2 = strongly disagree 5 = strongly agree

Students appear to find authentic assessment tasks enjoyable.

3

Students tend to push themselves toward higher goals as a result of authentic assessment.

4 3

#### Skill Achievement Subscale

Below is a series of statements about authentic assessment. Please indicate the extent to which you agree or disagree with each statement by circling the appropriate mark to the right of each statement.

4 = agree 3 = disagree 2 = strongly disagree = strongly agree

As a result of authentic assessment, students' physical fitness has decreased.

5 3

As a result of authentic assessment, students utilize skills better in games.

3 2 5

#### **Summary of Pilot Data**

- 138 Physical Educators
  - -44.2% Male
  - 55.8% Female
- Grade Levels
  - 43% Elementary
  - 36.7% Middle School
  - 28.9% High School
  - 11.7% Higher Education
- · Average years of teaching was 14.2 years

#### **Summary of Pilot Data** 86.2% reported using Authentic Assessment Number of years using **Authentic Assessment** < 1 yr 12% 10 yrs 26% 1-2 yrs 20% 6-10 yrs 19% 23%

#### Frequency of using Authentic Assessment

/ \G ( ) \		, ,,,,,	,,,,,,,,	<b>U</b>	
	never use	rarely use	sometimes use	often use	always use
teacher observation	0.00%	1.00%	3.90%	27.50%	67.60%
peer observation	4.90%	6.90%	51.00%	30.40%	6.90%
self-observation	3.90%	9.70%	49.50%	32.00%	4.90%
checklists	2.90%	18.60%	42.20%	25.50%	10.80%
event tasks	22.20%	22.20%	25.30%	24.20%	6.10%
student log	8.80%	24.50%	39.20%	22.50%	4.90%
demonstration/exhibitions	2.90%	8.80%	16.70%	38.20%	33.30%
written essays	31.40%	25.50%	23.50%	16.70%	2.90%
portfolio	44.00%	22.00%	16.00%	10.00%	8.00%
parental report	34.70%	24.80%	25.70%	5.90%	8.90%
student projects	24.20%	18.20%	31.30%	13.10%	13.10%
anecdotal record	37.90%	21.10%	31.60%	8.40%	1.10%
video tape	38.60%	30.70%	20.80%	5.90%	4.00%
oral discourse	12.00%	15.00%	33.00%	16.00%	24.00%
others	17.60%	11.80%	50.00%	14.70%	5.90%

#### Frequency of using **Authentic Assessment**

- Teacher observation 94% Written essay 19%
- Peer observation 37%
- Portfolios 18%
- Self observation 37%
- Check lists 35%
- Video 10%
- · Anecdotal recording 9%
- Demonstrations 69%
- Student projects 26%

• Parental reports 15%

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#### Perceived Impact of **Authentic Assessment**

	Pilot Data	Mintah (2003)
Self-Concept	19.95 (1.59)	19.36 (2.52)
Motivation	20.08 (1.75)	19.27 (2.46)
Skill Achievement	20.23 (1.75)	19.44 (2.36)

#### Frequency of using **Authentic Assessment**

- Teacher observation 94% Written essay 19%
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- Check lists 35% Video 10%
- Demonstrations 69%
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- Student projects 26%

Does this surprise you?

#### Alternative Assessment → **Authentic Assessment**

#### **Authentic Assessment:** Assessment in a real-life setting

- -Can be traditional or alternative
- Comprehension and application are emphasized

#### Traditional ---- Authentic

Selecting a Response ------ Performing a Task Contrived ----- Real-life Recall/Recognition ------Construction/Application Teacher-structured ------ Student-structured Indirect Evidence ----- Direct Evidence Jon Mueller

#### Challenges of **Authentic Assessment**

- 13.8% do not use Authentic Assessment
  - Take away from activity time
  - Not required
  - -Time
  - -Size and number of classes
  - Difficult to manage
  - Too difficult at elementary grade level
  - No formal assessment is needed at elementary level

#### What does Assessment have to do with Instruction in PE?



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#### **Seamless Assessment**

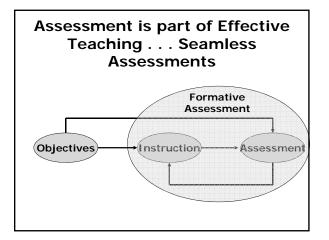
#### Traditional View:

- Plan, Instruct, and Assess at end of unit

#### Modern View:

Planning, Instruction, and Assessment as a "braided rope"

Puckett & Black (1994)



#### Practicality of Authentic Assessment

- 1. Can the assessment be imbedded into an instructional task?
- 2. Is the information that I am getting from this assessment worth my time?
- 3. Am I able to complete the assessment in a reasonable time?
- 4. Am I am able to record the data in an efficient manner?

(Payson, 2004)

# Objectives of Instruction: Ensuring Relevance with Instruction Objectives Instruction Assessment

#### Create Learning Activities with Assessment Tasks

- Observe teacher perform Forehand Drive by returning ball to hitter across net
- Use Forehand Drive Checklist to identify cues by teacher
- Critical performance cue identified
- Students perform cues w/out tennis ball
- Partner Toss/ Forehand Drive . . .
- Peer Observation Assessment using Checklist

# What Assessment Will You Use?

- Keep in mind your Objectives
  - Remember that in Standard Based Education, assessment is embedded within instruction
  - Learning Objectives become criteria for assessment, also . . .
  - Assessment should be demonstrated in real-life settings, application of Knowledge, Skills, and Abilities

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#### **Evaluation of your** Assessment Does it assess the intended outcome of the lesson(s)? Are there prered YES NO skills required that may impact the outcome of the skill being assessed? YES NO Is the assessment developmentally appropriate for grade level identified? Is the assessment an integral part of the learning task? Is the assessment a YES NO major focus of the lesson objectives? Does it allow you to assess in a practical way? YES NO YES NO Would you anticipate adequate Inter-rater and Intra-rater Objectivity? $Does the \ assessment \ allow the \ student \ to \ demonstrate \ what \ he/she$ YES NO knows and is able to do? Are the critical elements assessed? YES NO Is the rating scale developmentally appropriate? Is the breakdown of the task developmentally appropriate? YES NO

#### Test Selection and Administration: Ensure Valid and Reliable Measure

- ✓ Validity Checks with PE Teachers
- √ No measure will be perfectly reliable
- ✓ Ensure there is consistency with PE Teachers
  - Maximize Objective, Minimize Subjective

#### Test Selection and Administration: Ensure Valid and Reliable Measure



- Alternative & Authentic Assessments tend to lack validity & reliability
  - Must ensure alignment with objectives and instruction during PE

#### **Example**

# Make sure to check validity of assessment by comparing assessment to lesson objectives:

- Ex: The student will be able to exhibit proper form when executing an overarm throw.
- Checklist or rating scale could be used
- -What are the criteria?
  - Should correspond to elements emphasized in lesson and unit

#### Reliability/Objectivity

#### Assessments musts be:

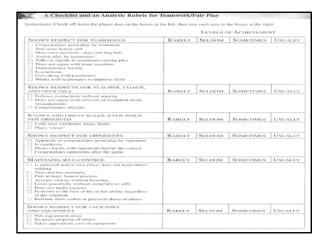
- Clearly organized, specific criteria for judging performance or product should be explicitly stated (behaviorally anchored)
- All individuals doing the assessment must thoroughly understand the criteria
- Raters must be consistent

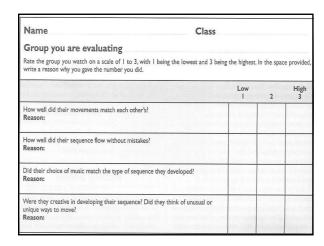


	Developing	Rookie	Right on	Awesome
Shot execution	Can use the forearm pass during game play although may misdirect built because the arms are unevon. Occasionally plays the built off the wrist. Setting is inconsistent. Doesn't move to the built.	Effectively uses the foreams pass during game play, Is able to direct the ball to a target most of the time while using the set. May try to reach for a ball when out of position to make the play. Attempts to spike or clink the ball.	Uses the forearm pass when appropriate during game play. Usually is able to set the half to the target. Moves behind the ball to make the bits. Is able to spike the bill. Uses the dark effectively to deceive opponent. Can dig a difficult to reach ball and keep it in play.	Moves quickly into position to play the bull. Judgment on the type of hit by make in abusy connect. Converts horizontal movement to vertical movement without delting when playing the bull at the net. Goes afto- difficult shors and is able to keep the bull in play. Uses emergency techniques only when necessary.
Knowledge of rules	Knows the basic rules of volleyball about illegal hits, serving, and net play. Hesitates during game play due to limited knowledge of the rules.	Solid knowledge of the rules. Knows serving rotation and how to substitute players. Can keep score accurately.	Can answer most questions about rules. Helps others on the court. Understands the rules concerning net play.	Uses rules to the team's advantage. Other players consult this person when questions arise. Could officiate a game without error.
Strategy	Maintains a 3 front-3 back formation whether on offense or defense.	Shows different strategic formations when playing offense and defense.	Moves easily between offensive and defensive positioning during game play. Attacks the ball trying to be on the offensive. Attempts to set up a 3-bit attack strategy.	Uses player substitutions to increase team effectiveness. Has multiple offensive and defensive plans based on what the other team is doing. Is directly responsible for several kill shots.
Team work/ court movement	Attempts to cover the area within arm's reach of where be/she is standing.	Communicates with others during team play. Moves to cover the area around where he/she is standing	Moves to cover the court, rather than the area where he/she was initially standing. Is able to combine count novement with strategy for effective team play.	Takes a leadership role in communicating with other members of the team by directing players when they are out of position. Knows where other players should be and prompts out movement when necessary.
Serves	Uses an underhand serve to put the ball in play. Ball forquently ends up in the net.	Can use an overhand serve effectively during game play. Attempts to place the ball rather than merely getting it over the net.	Consistently places the ball during game play. Serve is close to the net and difficult to return.	Places the ball on the opponent's court effectively. Serve often cannot be returned.
Pair play	Rarely talks with or encourages others. May try to call plays incorrectly to gain an advantage.	Calls plays fairly. Tries to encourage others on his/her own team.	Calls the plays fairly. If there is a dispute, will replay the point, When there is an official, accepts the calls without protest. Encourages other team rembers to do their best. Is a good fearn player.	Consistently recognizes the good play of others even on the opposing team. Shows much cooperation with other members of the team. Does no try to dominate the game and show off. Calls shots home-thy and fairly.

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#### Prevalence and Perceived Impact of Authentic Assessment

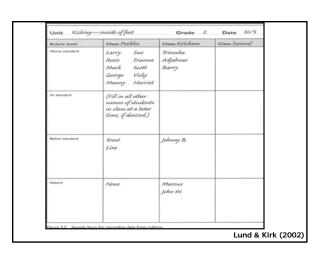




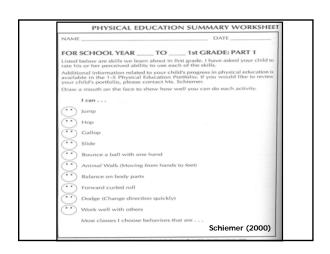
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(Payson, 2004)

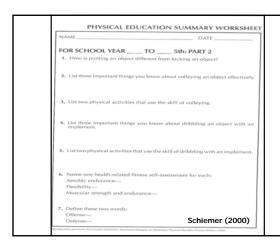


feeder "feeds" with an underhand toss to the doer, whe the criteria listed below.	hile the observer offers feed	Sback to the doer by compa	ring the performance to
CRITERIA	DOER 1	DOER 2	DOER3
1. ELBOWS HIGH	Yes Nie	Yes No	Yes No.
<ol> <li>MAKES A DIAMOND WITH THUMB AND FINGERS</li> </ol>			
3. MAKES CONTACT WITH THE BALL IN FRONT OF FOREHEAD			
4. QUICK "CATCH" & FLICK WITH FINGERS			
5. EXTEND ARMS AND WRIST			
PRETEND YOU ARE CATCHING A WATER BALL. THE BALL.	OON TO HELP YOU GET TH	E FEEL OF <b>NOT</b> "STABBIN	16° OR "SLAPPING" AT



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#### Prevalence and Perceived Impact of Authentic Assessment



#### **Tips**

- · Go slow
  - -Start with one unit
- Align with teaching
  - Consider teaching cues as assessment elements
- · Utilize existing resources
  - Do not reinvent the wheel

"The process of gathering evidence to make inferences about student learning communicates to students and all of those concerned with their learning

## what is valued in physical education

and how students are progressing toward specific goals. When the information gathered is consistent with learning goals and is used appropriately to guide teaching, it can enhance learning as well as document." (NASPE, 1995; p. viii)

#### **Assessment Resources**

- PE Central
  - pecentral.com
- Jon Mueller's Toolbox
  - jonathan.mueller.faculty.noctrl.edu/toolbox/index.htm
- Lawton PE Homepage
  - -www.orgsites.com/wa/lawtonpe/

#### **Assessment Resources**

- Moving Into The Future: National Standards for PE by NASPE
- · PE Assessment Toolkit by Giles-Brown
- Elementary PE Teaching & Assessment: A Practical Guide by Hopple
- Assessment Strategies for Elementary PE by Schiemer
- Maximum Middle School PE by Hirt and Ramos
- Performance-Based Assessment for Middle and High School PE by Lund and Kirk
- Professional and Student Portfolios for PE by Melograno

#### **Questions?**

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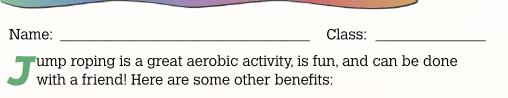
### **Assessment in Physical Education**

"The process of gathering evidence to make inferences about student learning communicates to students and all of those concerned with their learning what is valued in physical education and how students are progressing toward specific goals.

When the information gathered is consistent with learning goals and is used appropriately to guide teaching, it can enhance learning as well as document." (NASPE, 1995; p. viii)

TECHNIQUE	DESCRIPTION	EXAMPLES
Teacher-Directed	Achievement tests that are usually designed to measure perceptual motor skills, motor ability, physical fitness, and sport skills.	Teacher administers a test to, "Determine students' speed in dribbling a soccer ball around six obstacles using an alternating foot-tap technique."
	Observational inventories that provide a record of students' cognitive, motor, and affective (social, emotional, values) behavior through checklists and rating scales.	Student is observed during a fitness program and, using a 5-point scale, rated on the behavior, "Assumes responsibility for completion of tasks.
	Written tests that provide a direct measure of knowledge and higher-order abilities like application and synthesis.	A teacher-made item is, "Compare the advantages and disadvantages of using a full-court press against a fast-breaking team."
Peer	One student or group of students assesses the ability of another student. Students develop assessment skills, concern for others, and a sense of responsibility by giving and receiving constructive feedback. In small group settings, one person might be an observer, another might be a recorder, and two or three might be performing a given task. Criteria are established by the teacher.	Student compares and contrasts another student's performance with these teacher-determined criteria through task cards, rating scales, or checklists.
Self	Students make critical and valid assessments of their own abilities. Performance is compared to individual target goals, peer standards, teacherestablished criteria, or all of these.	Self-check instruments, videotapes, and journals logs are used where students are given options relation to selected content.
Portfolio	An ongoing feedback system is used that documents student learning through actual exhibits and work samples. Students are involved in selecting and judging the quality of their own work including self-reflection. The framework for developing portfolios includes their purposes, organization and management, item selection, and variety of items. Portfolios are not to be a collection of anything and everything. Information gathering should be based on multiple methods.	Observations (checklists, rating scales, frequence index scales, peer reviews, anecdotal recording parental reflections)  Performance samples (self-evaluations, journals projects, videotapes, reflections, workbook page Tests and testlike procedures (pre-tests, quizzes end-of-unit tasks, self-reports, commercial instruments)

# Jump-Rope Skill Checklist



- Improve muscular endurance
- Improve fine and gross motor coordination
- · Provide rhythmic training
- · Improve speed, timing, and balance
- Help relieve tension and aid relaxation
- Enhance self-esteem and create a positive body image

Select a partner and try the skills below. Check the skills that you master (by doing them five times in a row).

completions)	Mastery (5 completions)
Single rope tricks	
Partner skills	
Long rope skills	
	Single rope tricks  Partner skills

# Jump-Rope Performance Checklist



tudents will be graded on their ability to work as a team to develop a jump-rope routine. Each team is required to incorporate several of the tasks learned in class. Creativity and style will also be part of the grade. Use the form below to help you design your routine and have fun!

Group name:	
Group leader:	Class:
Group members:	

# Essential Jumps

Be creative and add your own moves, but you must include the following in your routine:

- At least three of the single rope tricks:
  - Single bounce
  - Double side swing and jump
  - Front cross
  - Bell
  - Step kick

and

(continued)

5.20

- Both of the partner skills:
  - Two in one rope, face to face
  - Two in one rope, side by side

or

- At least two of the long rope skills:
  - Single long rope—entering the front door
  - Jump, touch, and go
  - 360

## The Routine

Your group will be graded on the following components of your routine.

Component	Points
Start: Your routine has a designed and organized beginning. (5 points)	
Presentation/Style: The group demonstrates some flair and attention to performance. (10 points)	
Technique: Skills attempted are performed well and together. (10 points)	
Creativity: Routine is original and unique. (10 points)	
Cooperation: The group demonstrates an ability to work and perform together. (10 points)	
Finish: Your routine has a designed and organized ending. (5 points)	
Total:	
Comments:	
	· · · · · · · · · · · · · · · · · · ·

# Organizing Your Performance

Use this form to help you organize your presentation.



Group name:		
Group leader:	Class:	
Group members: _		

Performer(s)	Activity
List who will perform.	List what activities the performers will do. Don't forget to include the required elements.
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12	

#### **Example of Portfolio Assessment**

Students in 3rd-5th grade will continue with their P.E. portfolios. Each student has his/her own 3 tab pocket portfolio to help organize the contents. On "Portfolio Days" students have an opportunity to work on individual skills and record their progress in the portfolio. All students choose what skills they want to work on so their portfolio is very individualized. Students always have access to their portfolios anytime they have improved a score and need to record it. Your child's portfolio is a work in progress and shows his/her development in skills over several years. Your child will be able to take the portfolio when he/she graduates in 5th grade. You are always welcome to stop by a take a look at the portfolios if you are in the school.

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http://www.orgsites.com/wa/lawtonpe/

#### Figure 1. Possible Portfolio Projects To Demonstrate National Standards For Physical Education

- Written self-evaluation of current skill level and playing ability with individual goals for improvement
- Ongoing self, and peer evaluation of skill performance and playing performance (Process/Product - checklists, rating scales, criterion-referenced tasks, task sheets, game play statistics)
- Graph or chart, and explanation, which show performance of a particular skill(s), strategies across time
- Analysis of student's game playing performance (application of skills & strategies) through the collection and analysis of individual game statistics (i.e., shooting percentage, assists, successful passes, tackles, steals, etc.)
- The creation and performance of an aerobic dance, step aerobic, or gymnastic routine, with application of knowledge and skills. Evidence: a routine script and/or videotape of performance
- Provide documentation participation in practice, informal game play and/or organized competition outside of class
- Keep a daily PE journal in which the student sets daily goals, records successes, setbacks, progress and analyzes the situation and makes recommendations for present and future work
- Complete a written scouting report of potential opponents in class tournament prior to play (must demonstrate knowledge

- of offensive and defensive strategies which apply to opponent's strengths and weaknesses)
- Based on self-analysis or preassessment, select or design appropriate practice program and complete schedule, record results
- Set-up, conduct, & participate in a class tournament for assigned group. Keep group and individual records and statistics (as individual or as a part of a group)
- Write a newspaper article reporting on the class tournament, or a game, as if a sports reporter (must demonstrate knowledge of the game)
- Develop and edit a class sports or fitness magazine.
- Complete & record a play-by-play and color commentary of a class tournament game, as if a radio (audiotape) or a television announcer (videotape)
- Interview a successful competitor about his/her process of development as an athlete and current training techniques and schedule (audio or videotape)
- Interview an athlete with a disability about his/her experience of overcoming adversity. Apply what you have learned to your situation (audio, videotape or article)
- Write an essay entitled: "what I learned and accomplished during gymnastics (or any activity unit).... and what I learned about myself in the process.

#### Figure 2. The Development of a Portfolio Task

- 1. Identify the learner outcome which the student will demonstrate through the completion of the task.
  - The student will demonstrate knowledge of skills, rules, and strategies and the ability to apply each through game analysis and playing in a class tournament.
  - b. The student demonstrates that physical activity provides the opportunity for enjoyment, self-expression, and communication.
- 2. Identify the activity unit: middle/high school volleyball, basketball, tennis, badminton, or soccer.
- 3. Describe the project to the students:

In addition to participating in the class tournament, select one of three activities listed below to complete to demonstrate the learner outcomes. In each of the activities you must demonstrate and apply your knowledge of the skills, rules, traditions, and strategies of a selected sport from class and your ability to analyze the game and communicate your analysis of the game.

- a. Write an article reporting the class tournament game that you observed, including game statistics, and an analysis of the game based on team and/or individual performances. Include action photographs for emphasis.
- b. Complete and record, on audiotape, a play-by-play commentary of a class tournament game, or other live game, as if you are a radio sports announcer. You may complete this project with a partner.
- c. Complete and record, on videotape, a play-by-play commentary of a class tournament game or other live game, as if you are a
  TV sports broadcaster. You may complete this project with a partner or small group.
- 4. Describe the performance criteria for the task assessment:

Criteria for assessment: The extent to which the student:

- a. Demonstrates the ability to apply his/her knowledge about the sport, to correctly and accurately analyze and report the game.
- b. Researches the role, responsibilities of the reporter or announcer
- c. Produces a quality product
- d. Demonstrates the ability to communicate appropriately
- 5. Develop a rubric to use to evaluate the task and provide the students with the rubric.

	Assessment Rubric
Outstanding:	<ul> <li>provides a clear demonstration of an accurate working knowledge of rules, strategies, skills, and a understanding of the game</li> <li>provides an accurate, quick, and colorful analysis of the game for the audience</li> <li>demonstrates the ability to communicate ideas well</li> <li>provides outstanding evidence that student researched the role, responsibilities and techniques of the announcer/reporter</li> <li>provides an overall product of the highest quality</li> </ul>
Proficient:	<ul> <li>provides a demonstration of a mostly accurate knowledge of the areas of the game</li> <li>provides a mostly accurate analysis and interesting report of the game</li> <li>communicates well most of the time</li> <li>provides acceptable evidence of completed research on the role and responsibilities of the announcer/reporter</li> <li>provides an overall product which is acceptable</li> </ul>
Novice:	<ul> <li>performance demonstrates a lack of essential knowledge about the game, many inaccuracies and errors occurred</li> <li>analysis and report of the game is slow, inaccurate, and boring</li> <li>does not communicate ideas clearly</li> <li>no evidence of research on the roles, techniques and responsibilities of the reporter/announcer</li> <li>provides an overall product of poor quality</li> </ul>