# How to...

# Design a Standards-Based Lesson

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#### **Presentation Plan**

- 1. Overview of the planning process
- 2. Model a standards-based lesson

### **Handouts**

> AAHPERD website

beyondkickball.com

## The Goal of Physical Education

"...is to develop *physically literate* individuals who have the knowledge, skills, and confidence to enjoy a lifetime of healthful physical activity."



#### **National Standards**

- **Standard 1 -** The *physically literate* individual demonstrates competency in a variety of motor skills and movement patterns.
- **Standard 2 -** The *physically literate* individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.
- **Standard 3 -** The *physically literate* individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness
- **Standard 4 -** The *physically literate* individual exhibits responsible personal and social behavior the respects self and others.
- **Standard 5 -** The *physically literate* individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction

What is physical literacy?

HANDS UP for Health and Physical Literacy

Applying Physical & Health Literacy



## **Standards FAQ**

**Standards** describe what students are expected to know and do at a specific stage of their education.

Standards are more than just a list of what to teach

Standards-based instruction design (SBID) is a systematic approach to instruction that focuses on student learning

## National Standards (Anchor Standards)

- **Standard 1 -** The *physically literate* individual demonstrates competency in a variety of motor skills and movement patterns.
- **Standard 2 -** The *physically literate* individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.
- **Standard 3 -** The *physically literate* individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness
- **Standard 4 -** The *physically literate* individual exhibits responsible personal and social behavior the respects self and others.
- **Standard 5 -** The *physically literate* individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction

#### **Anchor Standards**

- Common threads or understandings
- ➤ K-12



#### **Grade Level Outcomes**

Specific statements of what students should learn at each grade level **Standard 3 -** Demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.



#### (S3.M6.6)

Participates in moderate to vigorous aerobic physical activity that includes intermittent or continuous aerobic physical activity of both moderate and vigorous intensity for at least 60 minutes per day.

# Planning for standards-based instruction

Unpack standard/ grade-level outcome

Determine evidence of learning

Select assessment tools

Determine instructional activities

Plan
learning
sequence
and
lessons







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## Unpacking

#### Step 1

Circle the verb(s) and underline the content

#### Step 2

Put content into boxes

#### Step 3

Break down the content into small learning blocks

# Step #1: Circle verb(s) and underline content.

National Standards, Grade-Level Outcome (6th Grade)

Participate in moderate to vigorous aerobic physical activity that includes intermittent and continuous aerobic physical activity of both moderate and vigorous intensity for at least 60 minutes per day.

## Step #2: Put content into boxes

Participate in moderate to vigorous physical activity

Participate in intermittent and continuous physical activity

Participate at least 60 minutes every day

# Step #3: Break down content into small learning blocks

Participates in moderate to vigorous aerobic physical activity

Describe the aerobic PA recommendations for children and adolescents

Define aerobic, physical activity, and intensity, and heart rate

Describe sedentary, light, moderate and vigorous physical activity

Identify enjoyable moderate to vigorous aerobic activities

Use tools to determine intensity

Classify activity as sedentary, light, moderate, or vigorous

small learning blocks Participates in moderate to vigorous aerobic physical activity that includes continuous and intermittent aerobic physical activity of both moderate and vigorous intensity for at least 60 minutes per day.

Participates in moderate to vigorous aerobic physical activity

Describe the aerobic PA recommendations for children and adolescents

Define aerobic, physical activity, and intensity, and heart rate

Describe sedentary, light, moderate and vigorous physical activity

Identify enjoyable moderate to vigorous aerobic activities

Use tools to determine intensity

Classify activity as sedentary, light, moderate, or vigorous

Participates in intermittent and continuous physical activity

Define intermittent and continuous activity

Classify activity as intermittent or continuous

Participates at least 60 minutes every day

recommended amounts of physical activity

Set a goal to achieve

Participate in physical activity

Analyze daily PA and compare to

recommendations

Substitute more intense activity to meet recommendations

Small learning blocks

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## 2. Determine Evidence of Learning

- Comes from the verb
- Must be aligned to verb

Grade-Level Outcome

Participates in moderate to vigorous physical activity....continuous and intermittent...for at least 60 minutes per day.



Evidence of learning

Evidence that students...

Participate in moderate to vigorous physical activity....continuous and intermittent...for at least 60 minutes per day.





Participates in moderate to vigorous aerobic physical activity that includes continuous and intermittent aerobic physical activity of both moderate and vigorous intensity for at least 60 minutes per day.

Participates in moderate to vigorous aerobic physical activity

Describe the aerobic PA recommendations for children and adolescents

Define aerobic, physical activity, and intensity, and heart rate

Describe sedentary, light, moderate and vigorous physical activity

Identify enjoyable moderate to vigorous aerobic activities

Use tools to determine intensity

Classify activity as sedentary, light, moderate, or vigorous

Participates in intermittent and continuous physical activity

**Define intermittent and continuous activity** 

Classify activity as intermittent or continuous

**Summative Assessment** 

Participates at least 60 minutes every day

Set a goal to achieve recommended amounts of physical activity

Participate in physical activity

Analyze daily PA and compare to recommendations

Substitute more intense activity to meet recommendations

Small learning blocks Participates in moderate to vigorous aerobic physical activity that includes continuous and intermittent aerobic physical activity of both moderate and vigorous intensity for at least 60 minutes per day.

Participates in moderate to vigorous aerobic physical activity

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Define intermittent and continuous activity

Classify activity as intermittent or continuous

Formative Assessment

Participates at least 60 minutes every day

Set a goal to achieve commended amounts of physical activity

Participate in physical activity

Analyze daily PA and compare to recommendations

Substitute more intense activity to meet recommendations

Small learning blocks

#### Evidence that students can...

- Participate in moderate to vigorous aerobic physical activity that includes continuous and intermittent aerobic physical activity of both moderate and vigorous intensity for at least 60 minutes per day.
- Describe the aerobic physical activity recommendation for adolescents
- Define aerobic, physical activity, intensity, heart rate
- Describe sedentary, light, moderate, and vigorous physical activity
- Identify enjoyable moderate to vigorous aerobic activities
- Use tools to determine intensity
- Classify activity as sedentary, light, moderate, or vigorous



# Planning for standards-based instruction

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### 3. Select assessment tools

**Assessment tool** - "a method used to collect evidence of learning"

Evidence to inform the student, teacher, or both

Choose the *kind* of tool that will allow you to collect the evidence you need.

#### Example:

If the verb is "define" the tool must ask the students to provide a definition. Having students "identify" or "list" would not provide evidence they have learned to define the word.

## **Assessment Tools Examples**

- Teacher observation Video
- Performance task
   Checklist
- LogDiagram
- Pair/Share/Compare
   Demonstration
- Exit slip
   Written response

# Planning for standards-based instruction

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### 4. Determine Instructional Activities

Activities must be *aligned* to the verbs in the standard/grade-level outcome or small learning blocks.

#### **Example:**

"Use tools to determine intensity of activities."

#### **Instructional Activity:**

<u>PACER with Talk Test</u> - Students sing or talk while doing the PACER. Partners indicate with fingers (1 = light, 2 = moderate, 3 = vigorous) the intensity level of the runner

#### **Instructional Activities**

#### Examples:

#### What/Why/How?

The teacher shares with students *what* they are learning, *why* they are learning it, and *how* they will know they have learned.

#### **MVPA Puzzle, Group Talk, and Compare Answers**

Students put together a word puzzle, discuss what it says and try to define key terms

#### **60 Minutes MVPA Game**

Students play a card game where they must accumulate 60 minutes of MVPA

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Select assessment tools

Determine instructional activities

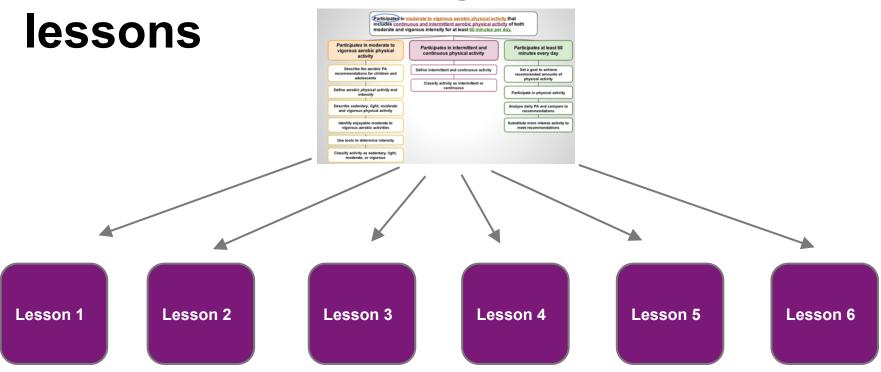
Plan learning sequence and lessons







5. Plan the learning sequence and



# Lesson 1 What/Why/How? Puzzle/Group Talk/Compare Answers 60 Minutes MVPA game Vocabulary Sticks

Partner Talk

(Small learning blocks from unpacked standard/grade-level outcome)

Describe the aerobic PA recommendations for children and adolescents

Define aerobic, physical activity, and intensity, and heart rate

Describe sedentary, light, moderate and vigorous physical activity

What are we learning today?



How will we know if we are successful?



"We are learning the amount and kind of physical activity needed to be healthy"

"You will have learned when you can...define the terms intensity, light, moderate, vigorous, sedentary, resting heart rate, aerobic, and physical activity"

#### Instructions

- 1. Find the people with the 3 other pieces to your puzzle
- 2. Discuss what you think are the definitions of these terms: *aerobic, moderate, vigorous* and *physical activity*.
- 3. When prompted, check answers with those on the screen

#### **MVPA** Puzzle

Children and adolescents should do 60 minutes (1 hour) or more of **physical** activity each day.

Most of the 60 or more minutes should be aerobic and either moderate or vigorous physical activity.

continuously an force you to breathe faster and use large amounts of oxygen.

**Aerobic activities** – Activities that move large muscles

Physical activity - Any bodily movement produced by skeletal muscles that result in an expenditure of energy.

Moderate Activity – Working hard enough to raise heart

rate and break into a sweat. Able to talk but unable to

sing the words to a song.

Vigorous activity - Breathing hard and fast and heart

Vigorous activity – Breathing hard and fast and heart
rate has increased significantly. Not able to say more

than a few words without pausing for breath.

### **60 Minutes of MVPA Game**

To convert one sedentary card into 10 minutes of MVPA you must do...

10 virtual rope jumps
5 seconds of plank
5 sit-ups

| <ul> <li>Moderate Activity – Working hard enough to raise heart</li> </ul> |   |
|--|---|
| rate and break into a sweat. Able to talk but unable to                    |   |
| sing the words to a song.  |   |
| Vigorous activity – Breathing hard and fast and heart                      |   |
| rate has increased significantly. Not able to say more                     | <del>-</del>  |
| than a few words without pausing for breath.                               | Resting heart rate - The number of times the heart        |
| Light Activity – Activities that increase energy                           | beats per minute when the body is at rest or inactive.    |
| expenditure <u>slightly</u> above the resting level.                       | Intensity – How hard the body is working. Indicated by    |
| Sedentary – Activities that <u>do not</u> increase energy                  | heart rate, breathing rate, body temperature, and         |
| expenditure substantially above the resting level.                         | perspiration.   |
|  | Aerobic activities - Activities that move large muscles   |
|  | continuously an force you to breathe faster and use large |
|  | amounts of oxygen.  |
|  | Physical activity - Any bodily movement produced by       |
|  | skeletal muscles that result in an expenditure of energy. |

### **Vocabulary Sticks**



Moderate activity

Working hard enough to raise heart rate and breakinto a sweat. Able.to. talkhut unable to sing the words to a song.

Vigorous activity

Where you are breathing hard and fast and your heart rate has increased significantly. Not able to say more than a few words without pausing for breath.

Light activity

Activities that increase energy expenditure slightly above the resting level.

Sedentary

Activities that <u>do not</u> increase energy expenditure substantially above the resting level.

Resting heart rate

The number of times the heart beats per minute when the body is at rest or iractive

Intensity

How hard the body is working. Indicated by heart rate, breathing rate, body temperature, and perspiration.

Aerobic activities

Activities that move large muscles continuously, and force you to breath, faster and use large amounts of oxygen.

Physical activity

Any bodily movement produced by skeletal muscles that result in an expenditure of energy.

What are we learning today?



How will we know if we are successful?



"We are learning the amount and kind of physical activity needed to be healthy"

"You will have learned when you can...define the terms intensity, light, moderate, vigorous, sedentary, resting heart rate, aerobic, and physical activity"

## Lesson 2 Game Show vocab review What/Why/How? PACER with Talk Test Give Examples Quiz Quiz Trade

(Small learning blocks from unpacked standard/grade-level outcome)

Define aerobic, physical activity, and intensity, and heart rate

Describe sedentary, light, moderate and vigorous physical activity

Use tools to determine intensity

Identify enjoyable moderate to vigorous aerobic activities

| <ul> <li>Moderate Activity – Working hard enough to raise heart</li> </ul> |   |
|--|---|
| rate and break into a sweat. Able to talk but unable to                    |   |
| sing the words to a song.  |   |
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What are we learning today?



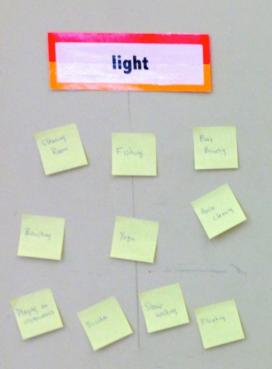
How will we know if we are successful?



"We are learning how to tell the difference between light, moderate, and vigorous intensity activity"

"You will have learned when you can use the talk test to identify the level of intensity your partner is working at."

## **Give Examples**







#### References

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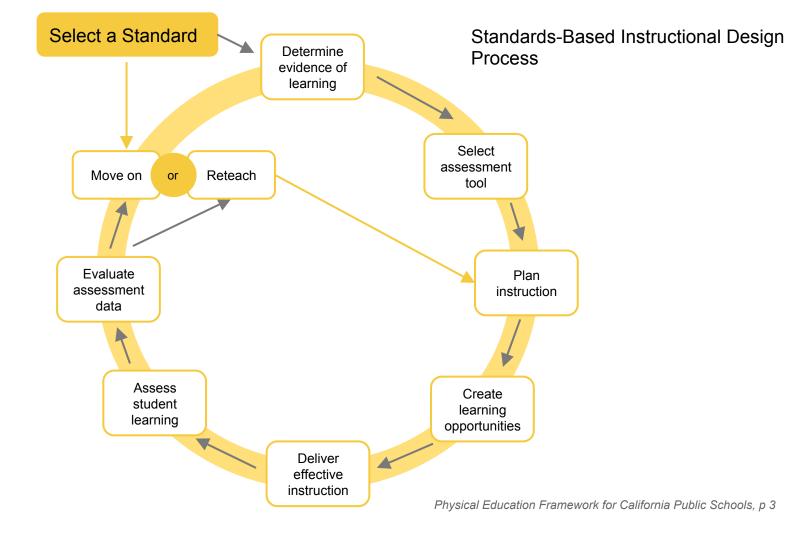
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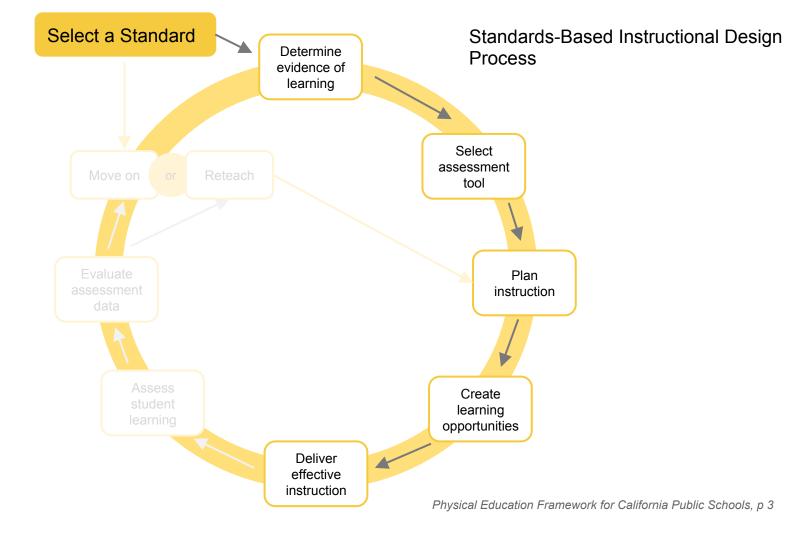
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# Thank-you!

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