Video Modeling (VM)---EBP Brief Packet---

Components of the EBP Brief Packet...

This evidence-based practice overview on Video Modeling includes the following components:

1. **Overview**: A quick summary of salient features of the practice, including what it is, who it can be used with, what skills it has been used with, and settings for instruction.

2. **Evidence-base**: The VM Evidence-base details the NPDC criteria for inclusion as an evidence-based practice and the specific studies that meet the criteria for this practice.

3. **Step-by-Step Guide**: Use the VM Step-by-Step Practice Guide as an outline for how to plan for, use, and monitor VM. Each step includes a brief description as a helpful reminder while learning the process.

4. **Implementation Checklist**: Use the VM Implementation Checklist to determine if the practice is being implemented as intended.

5. **Data Collection Sheets**: Use the data collection sheets as a method to collect and analyze data to determine if progress is being made for a learner with ASD.

6. **Tip Sheet for Professionals**: Use the VM Tip Sheet for Professionals as a supplemental resource to help provide basic information about the practice to professionals working with the learner with ASD.

7. **Parent Guide**: Use the VM Parent Guide to help parents or family members understand basic information about the practice being used with their child.

8. **Additional Resources**: Use the Additional Resources to learn more about the practice.

9. **CEC Standards**: A list of CEC Standards that apply specifically to VM.

10. **Module References**: A list of numerical References utilized for the VM module.

**Suggested citation:**

What Is Video Modeling?

Video modeling (VM) is an intervention that uses technology (video recording and display equipment) to provide a visual model of a targeted behavior or skill. Thus, it is often referred to as an assistive technology method. Often, VM is combined with prompting and reinforcement to maximize the viewer’s (learner’s) ability to apply what they have seen. VM can be used as a stand-alone instructional practice or in combination with other evidence-based practices such as self-management, social skills training, or social narratives.

Evidence-base

Video modeling meets the evidence-based practice criteria set by NPDC with 31 single case design studies and 1 group design study. The practice has been effective for early intervention (0-2 years) to high school-age learners (15-22 years) with ASD. Evidence-based practices (EBP) and studies included in the 2014 EBP report detailed how video modeling can be used effectively to address: social, communication, joint attention, behavior, school readiness, play, cognitive, motor, adaptive, vocational, and academic outcomes.

How Is VM Being Used?

Video modeling has become increasingly popular as a way to teach a wide range of skills to persons with ASD, such as social responding, play, requesting, performing, and/or motor skills.

VM can be used by a variety of professionals including teachers, special educators, therapists, paraprofessionals, and early interventionists in educational and community-based environments. Parents and family members also can use video modeling in the home and in the community.

For more information, visit: www.afirm.fpg.unc.edu
The National Professional Development Center on ASD has adopted the following criteria to determine if a practice is evidence-based. The EBP Report provides more information about the review process (Wong et al., 2014).

Efficacy must be established through high quality, peer-reviewed research in scientific journals using:
- randomized or quasi-experimental design studies (two high quality experimental or quasi-experimental group design studies),
- single-subject design studies (three different investigators or research groups must have conducted five high quality single subject design studies), or
- combination of evidence [one high quality randomized or quasi-experimental group design study and three high quality single subject design studies conducted by at least three different investigators or research groups (across the group and single subject design studies)].

---Evidence-base for Video Modeling---

By using video modeling (VM), the learner with ASD might be able to process information easier and more quickly. Video modeling meets the evidence-based practice criteria with 31 single case design studies and 1 group design study. The practice has been effective with learners in early intervention (0-2 years) to high school learners (15-22 years). Studies included in the 2014 EBP report detailed how video modeling can be used effectively to address: social, communication, joint attention, behavior, school readiness, play, cognitive, motor, adaptive, vocational, and academic outcomes.

In the table below, the outcomes identified by the evidence base are shown by age of participants.
**Early Intervention (0-2 years)**


**Preschool (3-5 years)**


Preschool (3-5 years continued)


Elementary (6-11 years)


**Middle (12-14 years)**


**High (15-22 years)**


* Research which included participants in multiple age ranges.
This practice guide outlines how to plan for, use, and monitor the practice of video modeling.

Keep in mind that the four types of video modeling are:

- Basic video modeling
- Video self-modeling
- Point-of-view video modeling
- Video prompting

While each procedure is slightly different, the practice guide is applicable to all. When unique features are tied to a specific category, we will identify them through examples or cautions.

BEFORE YOU START...

Each of the following points is important to address so that you can be sure the selected EBP is likely to address the learning needs of your student.

Have you found out more information about...?

- Identified the behavior...
- Collected baseline data through direct observation...
- Established a goal or outcome that clearly states when the behavior will occur, what the target skill is, and how the team will know when the skill is mastered...

If the answer to any of these is “no,” review the process of how to select an EBP.

For more information visit: www.afirm.fpg.unc.edu
Now you are ready to start...

Step 1: VM Planning

The planning step explains how to choose the best type of video modeling to address the student’s needs, how to create the video, and when and where to use video modeling.

1.1 Determine if learner has needed skills

In order to learn from a model, a learner must be able to:
- Imitate others’ behaviors,
- Perform some of the component skills that make up the target skill, and
- Sustain attention long enough to watch the model perform the target skill.

1.2 Choose the type of VM to use to address the behavior/skill

Often there will be more than one type of video modeling that will fit your student learning needs. Be sure you understand the four basic types, what is required of the learner and the instructor, and what outcome you plan for the student to achieve so that you can choose the best VM type for the situation.

1.3 Simplify the task into smaller skills, if needed

Consider breaking down a skill or task that is too large into smaller pieces or sub-tasks. You may want to complete a task analysis of the larger skill and model each part separately using video prompting.

Note: For more information on task analysis, please visit the Task Analysis module.

1.4 Select reinforcers to pair with the target skill or behavior

A reinforcement assessment can be helpful in allowing the learner (of any age) to select those items that are most motivating and reinforcing.

Note: For more information on identifying reinforcers, please visit the Reinforcement module.

Use the VM Reinforcer Checklist to help you identify reinforcers.

1.5 Choose the video equipment

There are three specific equipment functions that may be needed in order to use video modeling as an effective intervention. These include (1) equipment to Record the behavior or skill, (2) software to Edit the video once it is recorded (if necessary), and (3) a device for the learner to View the video model.

Use the VM Equipment Checklist to help you identify functions of available technologies.
Step 1: VM Planning (continued)

1.6 Create the model and record the video

- Identify and prepare the model
- Arrange the environment for recording the video
- Record the video
- Edit the video
- Transfer the video to a viewing device

1.7 Introduce the viewing equipment to the learner, as needed

With some young children or students unfamiliar with watching videos, you will need to introduce the viewing equipment and give them a chance to manipulate and watch a video.

1.8 Train team members to implement the VM with fidelity

It is important to train these individuals in how to use the intervention with fidelity, much as you have learned to do. You can ask these individuals to review the Step-by-Step Guide and the Implementation Checklist, which are downloadable under the resources section of the module. Remember that if not used with fidelity, the intervention may be less effective and the student may become confused.

> Use the VM Planning Worksheet before using the practice.

Step 2: Using VM

This section describes the process of using video modeling and includes following the unique steps of the video modeling procedure, and providing prompting and reinforcement.

2.1 Arrange the environment for the video modeling intervention

The location for viewing the video should be as free of distractions as possible, with appropriate (non-glaring) lighting, and where the student can sit or stand comfortably to view at eye level. The materials needed for demonstrating the skill following the video modeling session should be set up and ready.

2.2 Choose a time to show the video to the learner

The video should be shown just prior to the student demonstrating the targeted skill. Incorporate the video of the task into the student's routine or schedule.

2.3 Show the video

Many students with ASD will watch the video without any difficulty; however, some may need additional prompting and reinforcement to attend to the entire video. Initially, the adult may have to sit and watch the video with the student.
Step 2: Using VM (continued)

2.4 Prompt the learner to perform the skill or behavior

After the student watches the video, the student demonstrates the behavior or skill.

2.5 Reinforce performance of all or part of the skill or behavior

Initially, reinforcement should be given every time the learner performs the behavior or target skill. As the learner uses the skill or behavior more consistently the reinforcement can be thinned to an intermittent reinforcement schedule.

2.6 Provide error correction, if needed

This procedure can be used if a learner continues to make mistakes with certain parts of the target behavior or skill. Only the particular scene where the mistake occurs is played for the learner to re-watch and practice. For example, if a learner correctly performs all the steps in washing their hands, except drying them once they are washed, then the section of the video that shows the model drying their hands would be the only piece shown.

2.7 Fade the video model

By delaying the start of the video or ending it before it is over, less of the video is shown. When the amount of the video is gradually decreased, the learner sees less of the video modeling. This procedure is maintained if the learner continues to use the target behavior successfully.

Step 3: Monitoring VM

The following process describes how the use of video modeling can be monitored and how to adjust your plan based on the data.

3.1 Collect and analyze data on target behavior

By collecting data on target behaviors and skills, team members are able to determine if the learner is making progress.

Use the VM Event Recording form to monitor behaviors.

Continue ➔
Step 3: Monitoring VM (continued)

3.2 Determine next steps based on learner progress

If the learner with ASD is showing progress with video modeling based upon collected data, then continue to use this practice with the learner. Gradually, new target skills and behaviors can be introduced to the learner with ASD.

- If the target skill or behavior is not increasing, ask yourself the following questions:
- Is the target behavior well defined?
- Is the target behavior measurable and observable?
- Is the skill too difficult and needs to be broken down into smaller steps (Task Analysis)?
- Does the learner have the needed prerequisite skills for video modeling?
- Has enough time been devoted to using this strategy?
- Was video modeling used with fidelity? (Use the Video Modeling Implementation Checklist to determine fidelity.)
- Are reinforcers motivating for the learner?

If these issues have been addressed and the learner with ASD continues not to show progress, consider selecting a different evidence-based practice to use with the learner.

*Use the VM Troubleshooting Guide to problem-solve.*
Video Modeling (VM)

---Implementation Checklist---

### Before you start:

- [ ] Identified the behavior?
- [ ] Collected baseline data through direct observation?
- [ ] Established a goal or outcome that clearly states when the behavior will occur, what the target skill is, and how the team will know when the skill is mastered.

**If the answer to any of these is “no”, refer to the “Selecting EBPs” section on the website.**

### Have you...

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<thead>
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<th>Step 1: Planning</th>
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<td>1.2 Choose the type of VM to use to address the behavior/skill</td>
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<td>1.3 Simplify the task into smaller skills, if needed</td>
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<td>1.4 Select reinforcers to pair with the target skill or behavior</td>
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<td>1.5 Choose the video equipment</td>
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<td>1.6 Create the model and record the video</td>
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<tr>
<td>□ Identify and prepare the model</td>
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<tr>
<td>□ Arrange the environment for recording the video</td>
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<tr>
<td>□ Record the video</td>
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<td>□ Edit the video</td>
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<td>□ Transfer the video to a viewing device</td>
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<tr>
<td>1.7 Introduce the viewing equipment to the learner, as needed</td>
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<tr>
<td>1.8 Train team members to implement the VM with fidelity</td>
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### Step 2: Using

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<td>2.2 Choose a time to show the video to the learner</td>
</tr>
<tr>
<td>2.3 Show the video (as often as needed)</td>
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<td>2.4 Prompt the learner to perform the skill or behavior</td>
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<tr>
<td>2.5 Reinforce performance of all or part of the skill or behavior</td>
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<tr>
<td>2.6 Correct errors (if needed)</td>
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<tr>
<td>2.7 Fade the video model</td>
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### Step 3: Monitoring

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<th>Step 3: Monitoring</th>
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</thead>
<tbody>
<tr>
<td>3.1 Collect and analyze data on performance of target behavior</td>
</tr>
<tr>
<td>3.2 Determine next steps based on learner progress</td>
</tr>
</tbody>
</table>
--VM Equipment Checklist--

Three specific equipment functions may be needed in order to use video modeling as an effective intervention. These include:

- equipment to **Record** the behavior or skill,
- software to **Edit** the video once it is recorded (if necessary), and
- a device for the learner to **View** the video model.

Place a check mark for each available item and its functionality. Check device specifications for playback/viewing and video editing options. Some possible video editing programs are:

- **Windows Movie Maker**
- **Pinnacle Studio**
- **Adobe Premiere Pro**
- **Vegas Pro**
- **iMovie**
- **Final Cut Pro**
- **Debugmode Wax**
- **Magix Movie Edit Pro**

### Available Equipment

<table>
<thead>
<tr>
<th></th>
<th>Record</th>
<th>View</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smartphone</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Tablet</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Video Camera</td>
<td>□</td>
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<tr>
<td>Laptop Computer</td>
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<td>Desktop Computer</td>
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<tr>
<td>Other:</td>
<td>□</td>
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</tbody>
</table>

Is additional technology equipment needed to create the video, if so what is needed? _____

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For more information, visit: www.afirm.fpg.unc.edu
---VM Planning Worksheet---

Learner’s Name: ___________________  Date/Time: ____________
Observer(s): ________________________
Target Behavior: ________________________

Determine the Learner’s Prerequisite Skills:
Does the learner imitate others? ________________________

Does the learner already have some of the skills necessary to perform the target skill? ______

Can the learner sustain attention long enough to observe the modeled behavior? ______

Select Video Modeling Type:
□ Basic  □ Point of view
□ Self-modeling  □ Video prompting

Complete Task Analysis (if needed):
1. __________________________________________
2. __________________________________________
3. __________________________________________
4. __________________________________________
5. __________________________________________
6. __________________________________________
7. __________________________________________
8. __________________________________________
9. __________________________________________
10. _________________________________________
Determine Reinforcers (refer to VM Reinforcer Checklist):

Choose Video Equipment (refer to VM Equipment Checklist):

Create the Video:
- Select and prepare the model
- Arrange the environment
- Record
- Edit (Refer to the VM Equipment Checklist for possible editing software)
- Upload

Introduce Viewing Equipment to the Learner (if needed):
Date introduced to learner ________________

Train Team Members:
- Special education
- General education
- Physical education
- Specials (e.g., music, library, computer, etc.)
- Paraprofessionals/Teaching assistants
- Speech therapist
- Occupational therapist
- Physical therapist
- Other: ________________

For more information visit: www.afirm.fpg.unc.edu
---VM Reinforcer Checklist---

Learner’s Name: _____________ Date/Time: _____________
Observer(s): ____________________________________________________________________

Use the reinforcer checklist to help identify appropriate reinforcers. This list includes some generic items/foods/interests, but keep in mind that a reinforcer may be anything that is interesting and motivating to the learner.

### Foods for Snacks/Mealtime Routines:
- [ ] Goldfish
- [ ] Pizza
- [ ] Chicken Nuggets
- [ ] Fruit
- [ ] French Fries
- [ ] Pretzels
- [ ] Ice Cream
- [ ] Chips
- [ ] Cheese

### Games for Play/Recess Routines:
- [ ] Peek-a-boo
- [ ] Chase
- [ ] Burrito games with a blanket
- [ ] Pat-a-Cake
- [ ] Tickle games

### Toys for Play/Recess Routines:
- [ ] Trains and Cars
- [ ] Legos
- [ ] Remote controls
- [ ] Phones
- [ ] Computer
- [ ] Puzzles
- [ ] Noisy toys
- [ ] Doll house

### Special Interests for Activities/Routines:
- [ ] Movie:
- [ ] TV Show:
- [ ] Real-Life Person:
- [ ] Movie Character:
- [ ] TV Show Character:
- [ ] Video Game:
- [ ] Letters
- [ ] Cars, Trains, Trucks
- [ ] Music
- [ ] Numbers
- [ ] Dinosaurs
- [ ] Computers/Technology

For more information, visit: [www.afirm.fpg.unc.edu](http://www.afirm.fpg.unc.edu)
---Event Sampling Data Collection---

Learner’s Name: ________________  Date/Time: ____________
Observer(s): ________________________________
Target Behavior(s): ________________________________

Event Sampling:
Use event recording to collect the frequency data at every instance the behavior occurs.

<table>
<thead>
<tr>
<th>Date</th>
<th>Skill/Target Behavior</th>
<th>Total</th>
<th>Notes</th>
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<tbody>
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</table>
---VM Troubleshooting Guide---

If there is not improvement after collecting monitoring data for three to five sessions (events or trials), refer to the problems and possible solutions below. Work with members of the learner’s team to determine if sufficient progress is being made based upon the data collected.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The learner is not making any improvement</td>
<td>• Show the video model again before asking the learner to demonstrate the targeted skill.</td>
</tr>
<tr>
<td></td>
<td>• Determine if there is too much time between watching the video model and performing the task. If significant lag occurs, the learner may not remember what they have observed.</td>
</tr>
<tr>
<td>The learner does not want to watch or sit through the entire video</td>
<td>• Sit with the learner or include peers when viewing the VM. It might be beneficial to exaggerate the learner’s performance (e.g., “WOW!! Look at who is in the video!” “That is GREAT! Let’s watch it again to see what they are doing!”). Positive reinforcement is important to keep learners motivated.</td>
</tr>
<tr>
<td></td>
<td>• Provide positive reinforcement while watching the video to gain and/or keep the learner’s attention. For example, verbal reinforcers like “You are doing a great job watching the video!”</td>
</tr>
<tr>
<td>The video model does not focus the learner on the target behavior</td>
<td>• The video might be too complex.</td>
</tr>
<tr>
<td></td>
<td>• The learner might not have the skills (e.g., imitation, learn by observation) needed to benefit from video modeling.</td>
</tr>
<tr>
<td></td>
<td>• The video might not provide enough stimuli to keep the learner focused.</td>
</tr>
</tbody>
</table>

For more information, visit:  
www.afirm.fpg.unc.edu
Video modeling...
- Is an evidence-based practice for children and youth with autism spectrum disorder (ASD) 0-22 years old that can be implemented in multiple settings.
- Involves the learner with ASD viewing the video model of the target behavior before demonstrating the target behavior.

Why Use?
- Learners with ASD often struggle with acquiring new target skills or behaviors.
- Video modeling increases the ability of learners with ASD to perform the target behavior.
- VM is a popular and effective EBP.

Outcomes
- The evidence-base for VM supports the use of this practice to address the outcomes below:

<table>
<thead>
<tr>
<th>Early Intervention (0-2)</th>
<th>Preschool (3-5)</th>
<th>Elementary (6-11)</th>
<th>Middle (12-14)</th>
<th>High (15-22)</th>
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</thead>
<tbody>
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<tr>
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<td>Joint Attention</td>
<td>Joint Attention</td>
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<td>Behavior</td>
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<td>Play</td>
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<td>Academic</td>
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TIPS:
- Before using VM, make sure the learner can imitate others' behaviors and sustain attention long enough to watch the video model perform the target skill.
- Prepare the model and the learner before using VM.
- Select equipment that is easy to use and available.
- Make certain that others know how to use VM with fidelity to increase generalization.
STEPS FOR IMPLEMENTING

1. Plan

- Determine if learner has needed skills
- Choose the type of VM to use to address the behavior/skill
- Simplify the task into smaller skills, if needed
- Select reinforcers to pair with the target skill or behavior
- Choose the video equipment
- Create the model and record the video
- Introduce the viewing equipment to the learner, as needed
- Train team members to implement the VM with fidelity

2. Use

- Arrange the environment for the video modeling intervention
- Choose a time to show the video to the learner
- Show the video (as often as needed)
- Prompt the learner to perform the skill or behavior
- Reinforce performance of all or part of the skill or behavior
- Correct errors (if needed)
- Fade the video model

3. Monitor

- Collect and analyze data on performance of target behavior
- Determine next steps based on learner progress
This parent introduction to video modeling was designed as a supplemental resource to help answer basic questions about this practice.

To find out more about how video modeling is used with your child, speak with:

For more information visit: www.afirm.fpg.unc.edu

This introduction provides basic information about video modeling.

What is a VM?
- Video modeling is an evidence-based practice for children and youth with autism spectrum disorder (ASD) from 0 to 22 years old.
- A model (i.e., peer or adult) is recorded demonstrating a desired behavior which is later viewed by the learner with ASD prior to the learner attempting to replicate what was demonstrated by the video model.

Why use VM with my child?
- Learners with ASD often struggle with acquiring new target skills or behaviors.
- Using a video model to view new skills has previously been successful in helping learners with ASD acquire or improve a range of skills and has been found to be highly motivating.
- Video modeling provides a visual demonstration of an appropriate skill for the learner with ASD to replicate and increases the likelihood that he or she will learn.

What activities can I do at home?
- Make a list of common activities you would like your child to do on a daily basis (such as brushing teeth, putting on shoes, saying “hello”). Choose three activities from the list to begin video modeling for your child.
- When your child performs an activity successfully, be sure to praise your child. It might also be helpful to provide time with a favorite toy or activity when completing an activity.
---Additional Resources---

**Articles:**


**Apps:**

- *Autism Emotion* by Model Me Kids, LLC (Free)
- *iMovie* by Apple (Free)
- *Model Me Going Places 2* by Model Me Kids, LLC (Free)
- *ReelDirector II* by NEXVIO INC. ($1.99)

**Books:**


**Website:**

Video Modeling CEC Standards

The CEC Standards that apply to all 27 evidence-based practices can be found on our website at: http://afirm.fpg.unc.edu/learn-afirm

Below are CEC Standards that apply specifically to Video Modeling (VM) module.

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<th>Description</th>
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<td>ISCI 2 K5</td>
<td>Social skills needed for educational and other environments</td>
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<tr>
<td><strong>Initial Preparation Standard 3: Curricular Content Knowledge</strong></td>
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<tr>
<td>DDA3 S2</td>
<td>Provide individuals with developmental disabilities/autism spectrum disorders strategies to avoid and repair miscommunications</td>
</tr>
<tr>
<td>DDA3 S5</td>
<td>Use specialized instruction to enhance social participation across environments</td>
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<tr>
<td><strong>Initial Preparation Standard 5: Instructional Planning &amp; Strategies</strong></td>
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<tr>
<td>ISCI 5 S19</td>
<td>Use strategies to support and enhance communication skills of individuals with exceptionalities</td>
</tr>
<tr>
<td>DDA5 S3</td>
<td>Provide specialized instruction for spoken language, reading and writing for individuals with developmental disabilities/autism spectrum disorders</td>
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<tr>
<td>DDA5 S15</td>
<td>Use specialized instruction to enhance social participation across environments</td>
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</table>

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Advanced Preparation Standard 3: Programs, Services, and Outcomes</strong></td>
<td></td>
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<tr>
<td>SEDAS3 S8</td>
<td>Provide varied instruction and opportunity to learn play and leisure skills</td>
</tr>
</tbody>
</table>

For more information visit: www.afirm.fpg.unc.edu
---Module References---


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