An In-Depth Look at the Moves of Fast Fish Learners for Workforce Development Practitioners: Overview of Workshop Materials

The materials accompanying this slideshow are archived from the first workshop of a series of three designed to introduce "Fast Fish Learning" to workforce practitioners and to take a deeper dive into the concepts. They begin with a brief overview. Participants engaged in working groups to consider the following documents/concepts below. There were two working sessions of ~45 minutes. Each was preceded by a brief introduction. The materials can also be used independently or as part of a small working group.

1. Reflecting upon the five components necessary for Fast Fish Learning (FFL) and considering in what ways you support FFL as Workforce Development Practitioners.

Using the document entitled, "Essential Features of Learning Designs for Supporting Fast Fish Learners/Workers: Considerations for Workforce Development Practitioners" as a guide, reflect upon the ways that you create learning designs that support Fast Fish Learning.

2. Analyzing the attitudes and moves that Fast Fish Learners engage in by applying them to two case studies.

Begin with the document entitled, "Attitudes and Moves for Fast Fish Learners/Workers." Review it to understand the moves of Fast Fish Learners. Then use the information to analyze the case studies of Malek and Latisha from the documents, "Case Study #1: Malek's Career Shift" and "Case Study #2: Latisha Studies to Become a Childcare Worker." Finally, consider the document, "Ten Research Points for Developing Fast Fish Learners in the Workforce and Workforce Development."







What Does it Take to Help People to Think, Learn, and Perform Better in the Workplace?

Next Level Learning: Three Core Pedagogical Concepts



Cognitive Neuroscience Rationale Revealed: A Research Based Users' Manual to the Mind: When learners understand the rationale behind learning and thinking moves, they are more likely to use the strategies and apply them flexibly as needed.



Generative Moves: Transfer to One's Own Situation: Instead of teaching one approach that loses nuance and applicability as problem levels change, learners are invited into a process of generating specific, contextualized strategies as apply to their own circumstances.



Contextualized Agency: Behaving Like Fast Fish: Learning and performing effectively is accomplished by modifying our contexts to support our best work just as fish create vortices in water to push off from to swim their fastest.

*I will use all of these in the design of our sessions.

For years, scientists studying fish were puzzled. Fish could actually swim much faster and more efficiently than any of their fish models could explain. It wasn't until they put the model into water and studied the interaction between the fish and the water that things made sense. They came to realize that fish create vortices as they move to push off from. Suddenly the performance of fish made sense. Scientists understood how fish and their environment interact to enable "fast fish"!

"Fast Fish-style" generative moves focus on modifications to the surrounding contexts that can improve thinking, learning, and performance.

Here's what "Fast Fish" moves might sound like:

"I realize that, like many people who have experienced trauma at some point in their lives, it works better for me to absorb feedback over time before responding. I asked my manager to give feedback on my work performance that incorporates this delay whenever possible. This helps me to be open-minded towards feedback and to use it well."

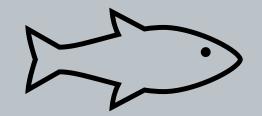
"I realized that moving my desk into a corner gave me control over when I needed to focus and when I was ready to be social. I had to navigate fewer sticky situations and got more work done."

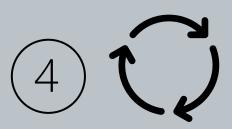
Jaylen is hitting his stride in his new job as a computer programmer for a shipping company. His manager, Devon, gave him the opportunity to *rearrange the workspace* so he has better access to the data and people he needs to interact with. Recently, he realized that Devon doesn't know the details of the job the way that he does. In fact, Devon prefers that Jaylen comes to him with *proposed solutions to problems that they discuss together*. Jaylen also knows that, like many people who have experienced trauma at some point in their lives, it helps him to absorb *feedback over time before responding*. He asked Devon to give feedback on his work performance that incorporates this delay whenever possible. Jaylen found that it helps him to be open-minded towards feedback and to use it well.



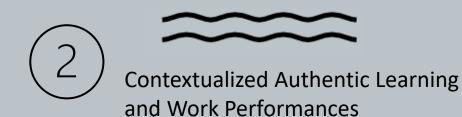


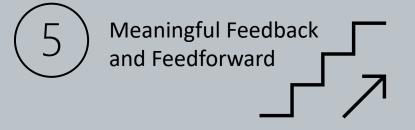
Modifiable Learning and Work Contexts Reflective Learners/ Workers Who Have Agency





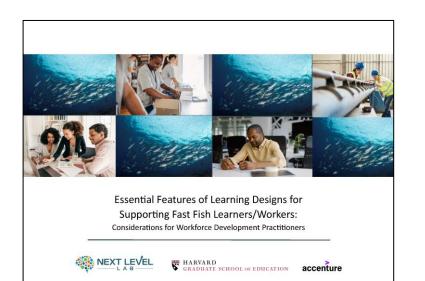
Multiple/ Repeated Opportunities for Engagement





Working Session One: What Are The Components of Fast Fish Learning And In What Ways Are You Supporting it?

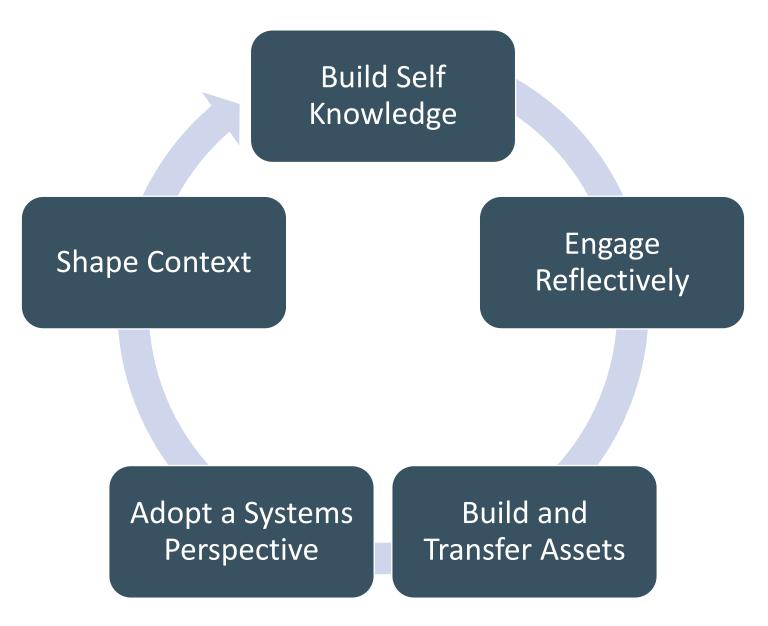
Using the document entitled <u>"Essential Features of Learning Designs for Supporting Fast Fish Learners/Workers:</u> <u>Considerations for Workforce Development Practitioners</u>" as a guide, reflect upon the ways that you create learning designs that support Fast Fish Learning.



Learners/Workers." The t Consider the reflection q Fish Learning" in your ow		earning" in your sessions/classrooms?; and 3) Ar			
Essential Feature	Key Characteristics	Questions for Workforce Development Practi			
1. Reflective Learners/Workers Who Have Agency	Altericat upon and seeks to know their embodied mind (including could, emotional, physical, and cognitive aspects). Cathers information about the nature of how minds in general work: and how their individual mind works. They develop a "Juse" is Manual to the Mind." -Considers themselves as cultural beings. -Actively identificative ways to apply the information. Views context as an aspect of the learning/ performance equation to be modified and seeks feasible/reasonable aspects of malicability.	In what ways an I - providing oparturities for learners/workers to their minds—generally and individually? - encoursiging a mastery stance—one that com they can learn to think and perform better? - helping learners to identify appropriate and eff seek maileability in workplace context? reating awareness of cultural tendencies and that workrars might infect the workplace and he reflect upon how these might inferact with diffe contexts?	3. Modifiable Learning/Work Context(s)	The social, emotional, physical, cognitive, and technological contexts have maileability. Aesources are available for modifying structures. Supervisory support exists for allowing malleability that teamers can "push off" from in order to improve performance.	In what ways - are the learning contexts that I am creating malleable? (socially, emotionality, physically, cognitively, technologically) - do recourage malleability as a superisolratancies - are the contexts that I am preparing learners for/to enter malleable? What might be done to encourage malleability? - do I help learners/workers develop strategies for growing, ew in non-malleable contexts?
			4. Multiple Opportunities for Engagement	 -Repeated opportunities exist to engage with taska— maining to positie to learn from failures and "up one's game." -When "one-off" tasks are necessary, they are treated as opportunities to reflect upon what learning/assests from the task might transfer to new tasks. -The tasks are complex enough to provide levels for progress across repeat engagements. 	How often do loffer multiple opportunities to learn a task? In what ways -do i encourage reflection and transfer forward when my students need to enage in a "non-off task? -are the tasks that loffer learners." Revised "s often they can make progress in their performances across repeat engagements? -do the learning tasks that I design have a low floor (so that there are minima barriers to entry) and a high ceiling (so that learners can reach for higher and biller levels)?
2. Contextualized Learning/Work Performances	-Has opportunities to perform learning and work tasks in authentic contexts. -Has opportunities to engage in "the whole task" or "junior versions of the task." -There are mentors who are engaged in the task and	-In what ways are the tasks/learning performane engage learners in authentic and contextualized -In what instances do I engage learners in the "v -When I engage learners in "junior versions" of a help them progress to the whole task?	Q		
Next Level Lab, Harvard Gr	demonstrate more expert performances.	-What mentoship is embedded in these contex	5. Meaningful Feedback and Feed-forward	Information on past performances is leveraged for new performances. -Information is framed to support learning paths towards greater expertise. -Learners/Workers are encouraged to reflect on their immediate performance AND water thich yeave learned about the nature of learning through their engagement in the task. The tasks themselves towards future performance. Timbic out-odues are conducted to most to sain	How do Thelp learners to Think about their learning paths forward from previous performance? In what ways - do I leverage feetback to support future performance? - do I help learners to see and reflect upon feedback that the task fissel fores? - do I help learners to see and reflect upon feedback about the processes that they annipoly while learning or engaging in a wo processes that they would be not be characterized for the set of - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the set of the set of the set of the - set of the set of the - set of the set of th

Next Level Lab, Harvard Graduate School of Education, 2.6.24

Moves of Fast Fish Learners/Workers



Malek Shifts Careers as a Fast Fish Learner/Worker

As a learner and worker...

- I worked my way up to a night shift supervisor at a hotel.
- I can handle all kinds of problems but work best when I have one thing that I can really focus on and think about at a time. I know a lot about how things work.
- I dread feedback. It is often bad news. If I know feedback is coming, I am anxious and if it is bad, I just want to get away.
- Because of this, I know how to soften feedback for people who work for me—to help them take it in.
- I know how to make customers feel heard. I listen well.
- As a person of color, I often feel overlooked by supervisors.

What Fast Fish Moves is Malek making? What else can he do?

The new work context in food services...

- Has quiet moments and busy moments.
- Has a supervisor who works at a distance and comes to town periodically.
- Involves interacting with a diverse staff and supporting younger people coming into the business.
- Issues arise that often need someone to take initiative and approach thoughtfully; there is no immediate supervisor to guide what to do.
- Has tended to see a lot of turnover in the newest employees.
- Involves work with perishables so there has to be a responsible person who ultimately handles things.
- Involves learning the science of the various products and how to best maintain them.

Learning to be a Childcare Worker as a Fast Fish Learner/Worker: Latisha

As a learner and worker...

- I worked as a waitress in high school. I know how to work under pressure and keep my cool.
- As a waitperson, I juggled lots of needs at once.
- I thrive on social energy.
- I take initiative and seek input when I need it.
- I find it hard to work in very quiet space $\frac{1}{3}$.
- If someone gives feedback in an abrupt way, I can be sensitive to it.
- I find it hard to engage in trainings that seem pointless or that don't connect to the tasks at hand.

What Fast Fish Moves is Latasha making? What else can she do? Studying to become a Childcare Worker...

- Involves learning a lot of rules and procedures.
- Being in the moment with the kids.
- Being able to juggle lots of needs at once.
- Learning from and with more experienced childcare workers.
- Dealing with different personalities and at least one person who is protective of the children's needs and thus hard on the staff.
- Trying to keep putting oneself out there for the kids even when one might feel triggered or not able to engage.

Working Session Two: What Are The Attitudes and Moves of Fast Fish Learners?

Begin with the document entitled <u>"Attitudes and Moves for Fast Fish Learners/Workers."</u> Review it to understand the moves of Fast Fish Learners. Then use the information to analyze the case studies of Malek and Latisha from the documents <u>"Case Study #1: Malek's Career Shift"</u> and <u>"Case Study #2: Latisha Studies</u> to Become a Childcare Worker." Finally, consider the document <u>"Ten Research Points for Developing Fast</u> Fish Learners in the Workforce and Workforce Development."



Attitudes and Moves for Fast Fish Learners/Workers



Case Study #1: Malek's Career Shift

"I can handle all kinds of problems but work best when I have one thing that I can really focus or and think about at a time. I know a lot about how things work." "I dread feedback. It is often bad news. If I know feedback is coming, I am anvious and iff its bad, J just want to get amoy."

"Because of this, i know how to soften feedback for people who work for me—to help then take it in."

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Mark's new work context has the following mander-initia: It has cell momenta and usay memorita. His immunitial supprivation in ordered at the same followy is Markel, Instead, His supervisor works at a distance and correst to them periodically. Markel's, job models, the facility has there staft and angiven provide periodic correst, instead, such as the fact and the fact the fact and the same staff and such that the same staff and the fact the fact has there is all and angiven the same at angiven the same staff. The data make bottless has the fact of furnament in the mean at angiven the same staff. The data makes bottless the bottless that and the same staff and the same staff and the same staff and the same staff works the bottless that the same staff and the same staff works and the same staff and the same st

As far as the food products, because they are perishable, there has to be a responsible person who utimately handles things. Further, there is a lot to be learned about the science of the various products and how to best mattain them.

The person values (pb Makik ta landing, Paul, in seriing in a month. Haak was able to pick his acting date to he obscillated to last screen by the initiance overlap in the most he person who knews his (pb base). In watching in prodecessor, he indicates three where Paul is amout) with or taking and the produces. It assers that some of thim are in the mover employees and as anomen who have been at the factify the a long time, at fand, Maka hourd himsel woodening why these employees intermediates and the state of the state of a character of the state of the state of the produces and the state of the state of the state of the state of the state factifiers and the state of the state of the state of the produces and the state of the state of the state of the state state of the state state of the state of the state of the state state of the state state of the state information of the state of the state of the state state of the state state of the state of the state state state of the state the state state state state state state state state state the state the state the state state state state state state state state state the state stat

->What do you notice about Malek as far as engaging in the moves of a Fast Fish Learner? What do you notice Malek doing? What other actions related to being a Fast Fish Learner/Worker might you suggest to Malek?

NEXT LEVEL

Case Study #2: Latisha Studies to Become a Childcare Worker

ha finished high school last year and hay just enrolled in a post-speaked program at het local inicial high school to sense a certificate as a Distizater Provider. Even though site has never all childcase before, this certainly in the first job. All toosing high school, a law worked at a differe to help say the lamity bils and to sens some spending money. Bie was actually quite with present and a single sense in the sense of the sense of the sense in the sense in the with present. Single sense in the sense of the sense of the sense of the sense in the sense in the sense in the sense in the sense of the sense of the sense in the sense is the sense in the sense in the sense in the sense in the sense is sense in the sense in the sense is sense in the sense in the sense in the sense is sense in the sense in the sense is sense in the sense in the sense in the sense in the sense is s

"I know how to work under pressure and keep my cool." "As a waitperson, I juggled lots of needs at once." "I theive on social energy."

"I take initiative and seek input when I need it."

*I find it hard to work in very quiet spaces, so the busy environment of the diner was perfect for me

he other hand, Latisha worries a bit about school. She shares, "If someone gives feedback in an pot way, I can be sensitive to it." She ealso realizes that she isn't always that patient with formal ruction if she can't connect to it. She says, " I find it hard to engage in trainings that seem filess or that don't connect to the tasks at hand."

e also has had experience with kids because she was often left to watch her younger siblings and usins when her morn and aunt got called into work. They tended to look up to her and listened atty well. Sometimes they had their friends over so it wasn't just kids that she was related to.

-Withat do you notice about Latisha as far as engaging in the moves of a Fast Fish Learner? What do you notice Latisha doing? What other actions related to being a Fast Fish Learner/Worker might you suggest to Latisha?



 Active processing is key to deep learning and understanding. You can't "give knowledge" to someone else.

- Productive struggle is one of the most meaningful ways to make learning robust and sticky.
- Learners need to engage in unproductive struggle at times in order to learn to recognize it and to realize that they need to change course.
- 4. Reflection in the form of metacognition is one of the most important things that we can do to enhance learning. However, metacognition cannot timeshare with thinking. It requires a serial process of thinking then reflecting and so on or a full metacognitive pause for analyzing one's thinking.
- Research shows that when learners know the rationale for specific learning moves, they are much more likely to apply them and to recall them over time.

 There are general learning principles that apply to all minds, but all minds are not the same and equity in learning environments requires making space for their differences.

- Learners who are introduced to Fast Fish Framing are more likely to report engaging in moves that fit with Fast Fish Learning.
- Learners who are adept at transferring knowledge from one situation to another are often strong analogical reasoners. They can "get to the bones" of how things are similar.

9. The most effective learners understand that they have embodied minds. They are alert to and manage their feelings as a core part of thinking and learning. They assess when they are backing away because something is hard, frustrating, puzzing, etc. They have ways of stepping away from the problem and circling back with new emotional stamina, insights, or approaches.

 Effective learners use their social network to support their learning. They use others' minds well.

Next Level at 12524