MONDAY (A) A3: 11:44 - 13:26	TUESDAY (B)	<b>WEDNESDAY (A)</b> A3: 11:44 - 13:26	THURSDAY (B)	FRIDAY (A) A3: 11:44 - 13:26
A4 13:30 - 15:00  Objective(s): SWBAT  * Expand upon their knowledge of conduction, convection, and radiation  * Investigate and identify different examples of heat transfer in their daily lives  * Work collaboratively to	Mr.	A4 13:30 - 15:00  Objective(s): SWBAT  * Work collaboratively to create visual posters we can use as a reference as well as validation for students  * Identify the result of the Coriolis effect on Earth's wind patterns  * Investigation the Coriolis effect on the northern and	Mr.	A4 13:30 - 15:00  Objective(s): SWBAT  * Recognize wind is produced by differential heating of Earth's surface  * Describe how the uneven heating leads to win and convection cells  * Identify patterns of convection in the atmosphere and think
create visual posters we can use as a reference as well as validation for students  Engage: A demo involving an aquarium, ice, a heater, and food coloring. This will serve as a model of convection in the real world. Students will make claims about what they think will happen.  *Start of class reshuffling of the groups to promote community and time to get to know and work with	B-day Pieniazek on classes on A-	Engage: Modeling the Coriolis effect (apparent force) via a demo involving student groups each using a globe and dry erase marker. Ask students how the drawn lines compare to their reference line as well as how the north pole -> equator drawn line compares to the south pole -> equator drawn line	B-day Pieniazek on classes on A-	Engage: Short self-made instructional video on the Coriolis effect addressing burning questions and summarizing yesterday's lesson.  Tea bag rocket demo to show students a real-world example we can visualize of a convection cell. Questions
Explore: Short 12 question Kahoot to serve as formative assessment for types of heat transfer. Students will then work together on a "Mystery	ly teaches -days.	Explore: Students will receive time before the explore to finish their anchor posters on energy transfer.	ly teaches -days.	will be asked after small group discussion about what we saw, what we think, and how this may connect to what we are learning today and what we have learned.  Explore: Discovering how air moves from high -> low pressure. Drawing out two models together: a no-spin earth model and a model showing how the Coriolis

transfer to sunderstand upon example in and symbol type of ene Elaborate: together/ex what studen about concellast week we convection	ing and expand ples present in lives.  tudents will eir respective reate visual osters including energy transfer, imple definition, the real world, I to represent the rgy transfer. E Tying panding upon ents learned erning cyclones with the demo.	Students will learn more about the Coriolis Effect by completing the choice board starting with a brief background reading (2 options) Students will then watch one of the three videos about the Coriolis Effect.  Explain: Students will work in their student groups to answer three of the questions on the choice board. They will use a notecard that the teacher can pick up to give feedback and serve as an exit ticket.  Elaborate: Drawing back to the lesson on cyclones during week 1, bring heat transfer learned last week into the picture when hurricanes are concerned.	effect affects and causes global circulation as well as our winds. Building upon our understanding about convection to understand how Hadley and polar cells work.  Explain: Short video summarizing the three kinds of global convection cells as well as a brief reading  Elaborate: Exit ticket elaboration portion: How do global convection cells compare on Earth and Venus? What about the Coriolis effect? Students will also use Null school simulator to find evidence of the Hadley and polar cells in action today to report their findings.
Summary: will be exp through for assessment world exan and an ancl that will be	via Kahoot, real nples, a demo, horing poster hung to serve nce throughout the unit.  at(s):	Evaluate: Choice board complete questions turned in before the end of class.  Summary: Students will be introduced to the fundamentals of the apparent force known as the Coriolis effect. They will work in groups to complete a "choice board" activity. This new content will hopefully work to tie hurricanes and heat transfer together as well.  Assessment(s): -Choice board note card-Anchor poster	consisting of 2 multiple choice questions, 2 free response questions (1 using Null school and one elaborating on the Coriolis effect with Venus). Feedback on my instructional video will also be collected via a Google Form at this time and  Summary: Students will learn about global convection and surface winds through an engaging demo involving fire, a follow-along map modeling air movement on an earth that spins and doesn't spin, and comparing Earth to Venus in terms of the Coriolis effect and air movement  Assessment(s):  -Model maps

			-Exit ticket
		D D :	D D :
	-aquarium	Resource Requirements:	Resource Requirements:
	-water	-mini globes	-teabag
es:	-red and blue food coloring	-dry erase markers	-beaker
3.	-hot plate	-notecards	-lighter
Ē	-ice	-Chromebook/computer	-Chromebook/computer
083	-markers and large white		-printed copies of Earth with
Æ	paper posters		latitude lines
	-Chromebook/computer		-3 different colored writing
			utensils