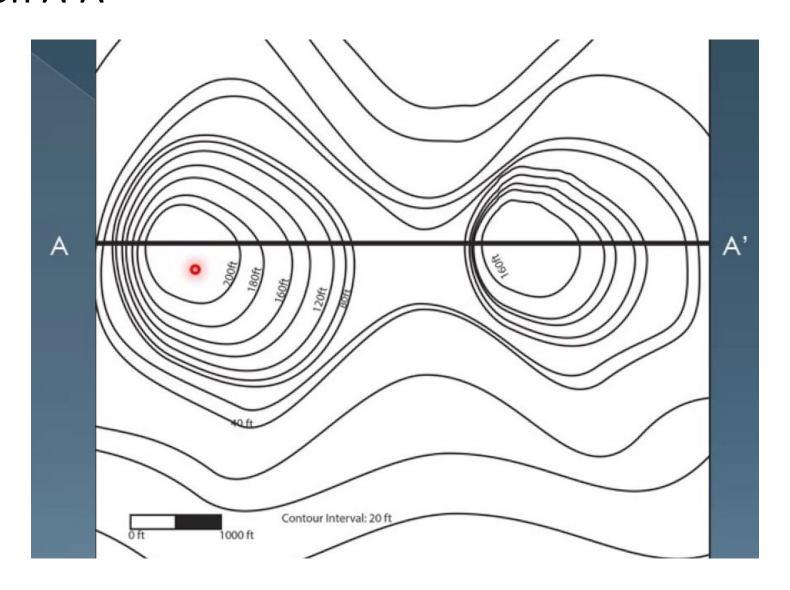
First class period

BW: Sketch a profile of this topographic map at cross section A-A'



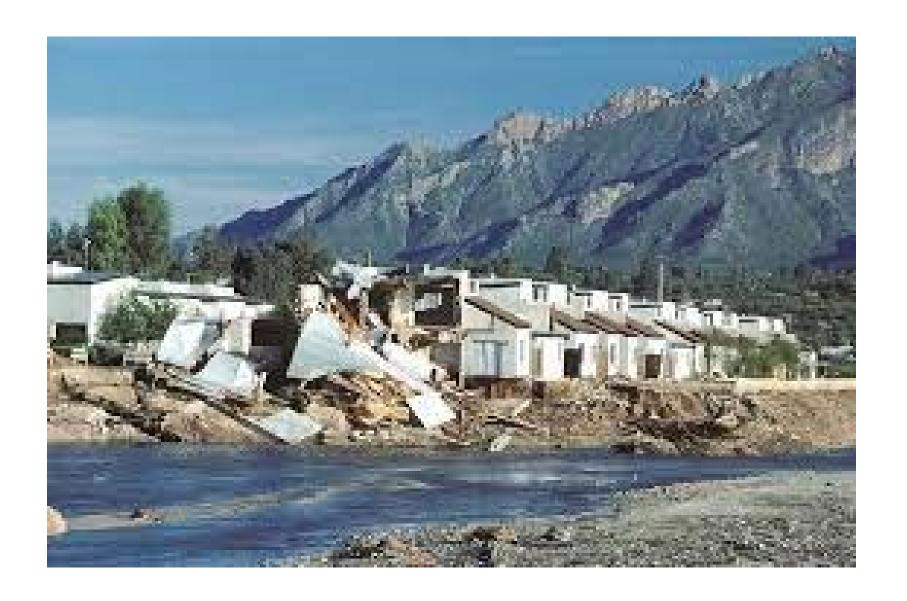
Quarter 1 Watershed Project

- Identify a local watershed
- Build a model the watershed
- Measure how water flows through it with your knowledge of motion

Grading

- 9 Milestones
- v, la, ne
- Final gallery walk and reflection (1 month out). Bring snacks









Agenda for today

Milestone 1 (Due Day 1)

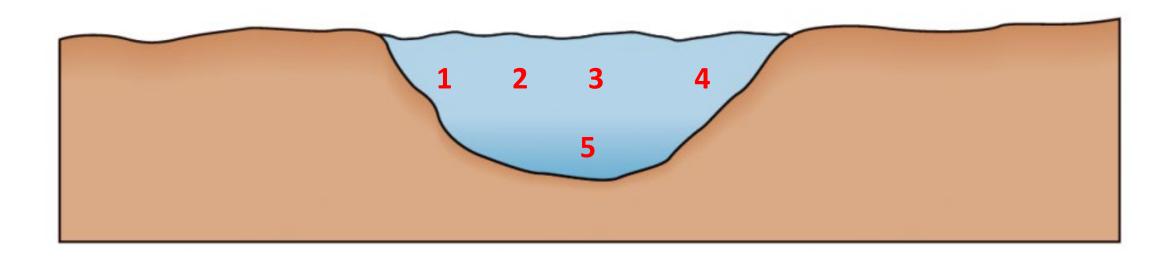
 Identify a watershed that you would like to study. Use google earth and document coordinates in notebook. Check in with teacher for credit.

Milestone 2 (Due Day 1)

 Decide division of labor in your groups. Check in with teacher for credit

Milestone 3 (Due Day 2 or 3)

 Bring materials (i.e. cardboard) for your model. **BW:** Where along this slice of a river do you think the speed of water would be lowest? Why?



Kochenderfer Method for Learning New Words

Vocab Definition The volume of fluid per every Flow rate second the fluid is travelling through the cross-section of a moving body of water. Drawing/Example In own words

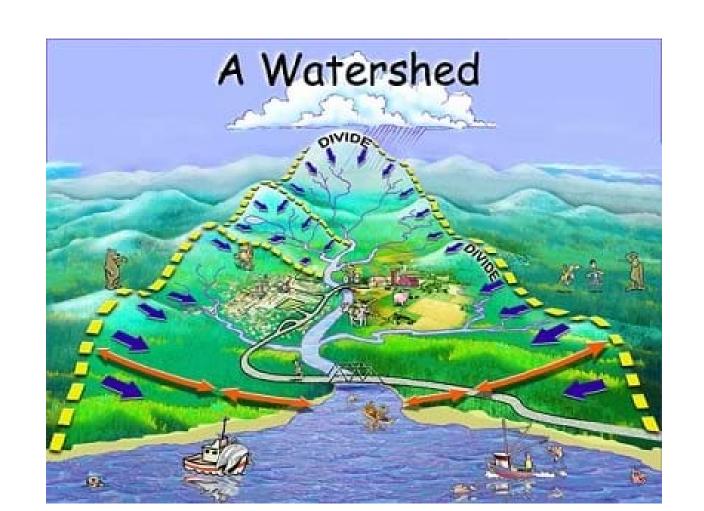
Kochenderfer Method for Learning New Words

Vocab	Definition
Friction	A force that occurs when one object rubs against something else. It always acts in a direction to oppose motion.
In own words	Drawing/Example

Kochenderfer Method for Learning New Words

Cross section	Definition A surface or shape that is exposed by making a straight cut through something.
In own words	Drawing/Example

BW: Write a list of what needs to be done today. Do you think that this list is realistic? How much time will you dedicate to each task? Note length of class period.



BW: 30 minutes into our first class next week, I will be doing a completeness check for Milestone 4 (skeleton of model). Make a list of what needs to be completed before then.



Next class period

Agenda for today

Milestone 3 (Due Day 2 or 3)

- Bring materials (i.e. cardboard) for your model.
- Check in with teacher for credit.

Milestone 4 (Due end of week 1)

- Complete a skeleton of your model (roughly complete)
- Check in with teacher for credit.

Summarize

- For 3 minutes, discuss what you completed today. Write a list in your notebook
- For 2 minutes, make a plan for next class, write this in your notebook.



Quarter 1 Watershed Project

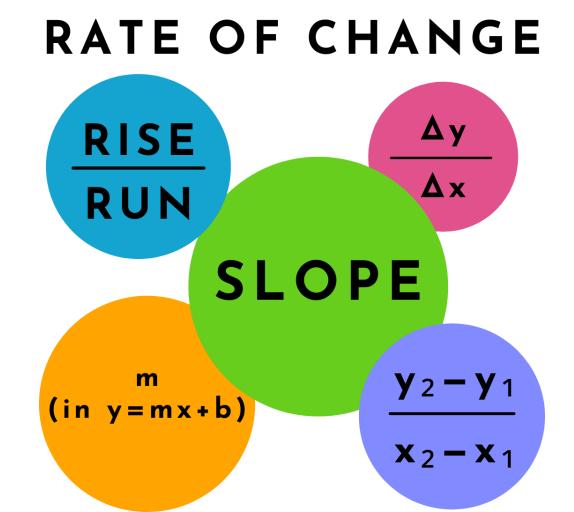
- Identify a local watershed
- Build a model the watershed
- Measure how water flows through it with your knowledge of motion

Grading

- 9 Milestones
- v, la, ne
- Final gallery walk and reflection 10/4 and 10/5. Bring snacks



BW: Write the definition of a rate in your own words. Use complete sentence(s). What goes in the numerator of a rate? What goes in the denominator?



Next class period

Agenda for today

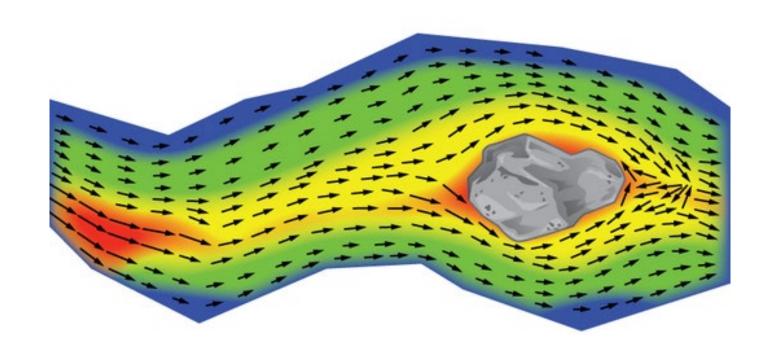
Milestone 4 (Due 30 mins into class)

- Complete a skeleton of your model (roughly complete)
- Check in with teacher for credit.

Milestone 5 (Due end of class)

- Model is coated with water resistant material
- Scale for model established
- No more work on model required

BW: Write <u>one</u> thing that you observe and <u>two</u> questions that you have about the following figure. Lastly, does this figure represent data? Write in complete sentences.



Next class period

Agenda for today

Milestone 6 (Due at end of class)

- Write 4 <u>testable</u> questions about the motion of water through your model in your notebook <u>individually</u>
- Collaborate with your group to decide on <u>one</u> question you will answer. Circle the question in your notebook
- Evidence of completion must be in your notebook for credit

Milestone 7 (Due at beginning of next class)

- Begin testing your question
- For this milestone, you must have recorded numerical data that you can develop into a figure in milestone 8!

Sample Questions

- How fast does water flow through the model?
- What is the most common path for water?
- Where does water tend to travel at any given point on the model?

BW: With your group, discuss the question relating to motion and water that you plan on answering. Collaboratively write a plan for how you will measure this. Remember, you must collect data and represent it in a figure (sort of like Dear Data project) for Milestone 8.

Next class period

Agenda for today

Milestone 7

- Begin testing your question
- For this milestone, you must have recorded numerical data that you can develop into a figure in milestone 8!

Milestone 8 (Due before next class)

- Represent the data that you collected in milestone 7 visually on a piece of paper which you will present next to your model.
- Look at other groups or Dear Data projects for inspiration

Milestone 9 (next class)

Reflection

Next class period

Milestone 9

Student Reflection

Examples of student work

