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# Connected Advocacy Rigor

Vehicles of Change

## What is essential?

→ Developing Essential Questions!

Questions that are most **relevant** aspects to the class [connective]

Answering the questions is a journey through the curriculum; it is **a process** not a product [rigor]

Help students **connect** your class to other classes and /or disciplines [connected]

Should cause students to generate more questions [advocacy]

Written as **open-ended** and **challenge** the students [rigor]

Spark curiosity and wonder [rigor]

Require multidisciplinary approaches to answer [rigor]

**So What?** Essential questions 1) accelerate instructional practices, 2) deepen the discipline knowledge and practices, and 3) advance thinking at sophisticated levels

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Require multidisciplinary approaches to answer [rigor]

Who? - engage students in making choices

What? – involve students in hypothesizing

When? – require students to predict

Where? - have students develop plans

Why? – use the students' skill of analysis

Which? – provoke students to use evidence to make decisions and reason through arguments

**How?** – compel students to gather information to **solve problems** 

## 1 – In what ways does conservation protect\_?



2 – How does nature conserve itself?

3 – What is the human responsibility to protect and to conserve?



## **Developing Essential Questions**



#### How can students improve water sources?







## A rain of knowledge



Erick Hernandez, left, of Austin and Dakota Robinson of Hayfield assemble a water-filtration unit as part of Project E3 Thursday at I.J. Holton ntermediate School. Photos by Eric Johnson/photodesk@austindailyherald.com





#### Who defines whose home this is?



They My Aquatic Macroinvertebrate Bug Name : \_\_\_\_\_ Gogg 1x wried Description: nd ANTER looks really adaptations are like 000,04 awex tech to ar Swim can It to PP Adaptations and why they are needed: can Adaptations, are 50\_ needed





### How can innovations help as well as hurt?





## Concept Development Worksheet [Cash, 2011]



Question Quest!	ls / Isn't	Do / Does	Might / Might Not	Would / Wouldn't	Should / Shouldn't	Can / Can't
Who?	1	1	1	2	2	2
What?	1	1	]	2	2	2
When? Where?	1	1	1	2	2	2
Which?	2	2	2	3	3	3
Why?	2	2	2	3	3	3
How? What if?	2	2	2	3	3	3

Wiederhold Question Matrix	Event	Situation	Choice	Person	Reason	Means
Present	What is?	Where / When is?	Which is?	Who is?	Why is?	How is?
Past	What did?	Where / When did?	Which did?	Who did?	Why did?	How did?
Possibility	What can?	Where / When can?	Which can?	Who can?	Why can?	How can?
Probability	What would?	Where / When would?	Which would?	Who would?	Why would?	How would?
Prediction	What will?	Where / When will?	Which will?	Who will?	Why will?	How will?
Imagination	What might?	Where / When might?	Which might?	Who might?	Why might?	How might?





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