Jotting in Journals

Presented by:
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Rate the current journal culture in your classroom on a scale of 1-5.
What is Journaling?

STEAM journals should be used on a daily basis to reinforce learning and PBLs. Journals should be student directed, and they are often messy!! This is an opportunity for students to collect data, conduct research, and continue questions.
Journaling is not...

- Cut outs glued into a composition book
- *Teacher directed*
- *A time for grades*
- *Uniformed*
What do you put in there?

- Research for your PBL
- Investigative Research
- Data
- Student questions
Ideas to incorporate ART

- Visual Thinking Strategies (VTS)
  - What’s going on in this picture?
  - What makes you say that?
  - What else can we find?
- Research artist
- Special areas
Math

This is NOT a math journal.

Collecting data is math!

Incorporate math standards that you are teaching that tie into your yearly PBL.

Word problems are great to incorporate.
Student Ownership

- Keep it handy
- Develop the culture of a “learning diary”
- Allow students to jot down ideas and questions, even if it doesn’t directly relate to PBL
- Lesson plans
Top Tip: “Model expectations”
12-5-19
claim
12-9-19

Wants | Needs

- Bright
- Hay/Pillow
- Toys
- Treats
- Food
- Water
- Shelter
- Air
Top Tip: “Think tank”
I think the water will grow the best.
1st

Does a Plant need Water?

Yes, a Plant does need Water.

I know this because the plant with water grows the best. I know it.

1-23-19

[Sketch of two plants, one with water and one without water]
I think the seeds will grow in the cup with the soil because it is good for the plant.

S: Soil  S: Sand
Top Tip: “Not scripted”
This year we did invest investigative research to decide where to put our pollinator garden. We put a seed in pots and put pots outside each 2nd grade teacher’s door. We tracked the plants’ growth in inches. Mrs. Allison’s plant did not grow at all, I think it’s because there is too much shade by her door. Mrs. Ballenger’s grew the most I think she gets the most sunlight. We are going to put our pollinator garden outside her room. We are going to draw designs what the PG should look like.
I think Mrs. Allison plant hasn't sprouted because too much shade, not enough water, gets afternoon sun—too hot. It is not in the right spot. I think it needs both, it needs some sun. It does not like the lot house. It needs some afternoon shade. We don't have any rain.
2nd

Plant observations
4-28
Green - 1 inch she's getting
Sunlight - 18 seeds
in the garden - 2 in.
Sun - 1 in.
Smith - 2 in.
Top Tip: “Student Led”

In third grade, our P.B.L is to make a cool station for the playground, using solar panels, fans, and if it gets cold, a heater. We are building this cooling station because people are getting sick, so we need a cooling station. We need to build a cooling station to save these people. So we are building a cooling station. Something I learned by using data is how to make a bar graph and how to read the graph. You need a lot of time and practice. We are trying to put the water station in a cool spot or make the shade cool. We want the cooling station to be safe, and we want everyone to be happy.

I have learned that when we were doing the data, it was very cold, but we were still happy. We were doing the metal, so it is very hot. And we think metal
3rd

Aug

This is a page from a child's notebook. The notebook contains drawings and some handwriting. The handwriting is not entirely clear, but it appears to be a description or story related to a playground. The notebook seems to be a part of a larger project or activity, possibly related to learning about the playground or a related subject.
In third grade, our PBL is to make a cooling station for the playground. Using solar panels, fans, and for if it gets cold a heater. We are building this cooling station because people are getting skin cancer, heat stroke, over heating and more. We need to build a cooling station to save these people! So we are building a cooling station. Something I leaned by using data is how to make a bar graph and how to search for data you need. I like STEAM because you do Math, Engineering, and Technology. In third grade this our our PBL!
12/9/14

Investigative Research

Our Investigative Research question is: How can we use solar power for a structure called a cooling station that will go on our playground. It will go on our playground because it is really hot outside and some kids stop playing.

We are doing this because some kids stop playing as they get dehydrated. You can get sick or even pass out. We are trying to put the cooling station in a cool spot or near the coldest spot. But we want the cooling station to be solar powered.

I have learned that when we were taking the data it was getting really hot. We are mad at year. But as we were getting hotter in the year. It was starting to get cooler but get hot again. We were doing the metal piece because it is metal. And the kids must all have a let.
Top Tip: “Let go of the messy”
Aquaponics

Best fish for aquaponics:
1. Goldfish - peaceful for a tank
2. Tropical fish - clean off algae
3. Mozambique tilapia - well known
4. Channel catfish - good size
5. Koi - live for a long time

Diagram:
- Goldfish
- Tropical fish
- Channel catfish
- Mozambique tilapia
Aquaponics

1. We can first grow the plants outside, and when they are ready for planting we put them in the tank.

2. Then the fish will take care of the plants and the plants will take care of the fish.

How can we sustain an aquaponics system of pines?
I learned that aquaponics takes care of fish and plants; the fish waste (poop) and a pipe sucks up the waste and makes it fertilizer for the plants. Then sends the clean water back down the pipe so the fish have clean water! So the fish always have clean water and the plants get water and fertilizer.
After today’s session, do you feel better prepared to create a journal culture in your classroom?
Thanks!
Any questions?
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