

## Solar Jitterbug

Initials/number: \_\_\_\_\_ Teacher: \_\_\_\_\_

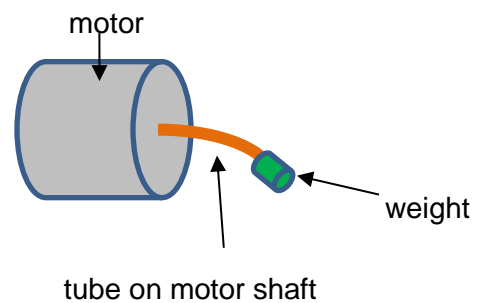
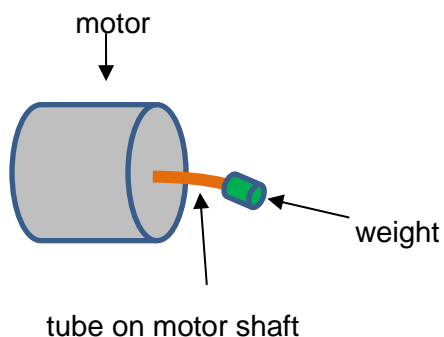
Date: \_\_\_\_\_

Please circle ALL THE WORDS that describe the activity you just did:

|          |                  |                  |
|----------|------------------|------------------|
| Fun      | Asking Questions | Boring           |
| Creative | Like             | Solving Problems |
| Dislike  | Hard             | I'm good at it   |
| Easy     | Thinking         | Learning         |

- What happens when the plus and minus connections of a power source to a motor are switched?
  - Motor speeds up
  - Motor slows down
  - Motor turns in the opposite direction
  - Nothing changes
- Below are drawings of two low power motors with weights attached to different length tubes on the motor shafts.

If the small motors have the same low power source – In which drawing is the weight likely to spin more slowly because the motor must work harder? Circle that motor.



3. Which of the following uses a motor with an offset weight?

- a) Car
- b) Cell Phone
- c) Air conditioner
- d) Heater
- e) Tablet Computer

For what function is the offset weight used? Explain:

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