**Independent versus Dependent Variable Worksheet**

**Directions**: Identify the independent and dependent variable for each set of observations or hypothesis.

**1. If** skin cancer is related to ultraviolet light, **then** people with a high exposure to UV light will have a higher frequency of skin cancer.

Independent variable –

Dependent variable -

**2. If** leaf color change is related to temperature, **then** exposing plants to low temperatures will result in changes in leaf color.

Independent variable –

Dependent variable -

**3. If** the speed of plant germination is related to the hardness of its seed, **then** softening the seed with water or a weakly acidic solution prior to planting will quicken germination.

Independent variable –

Dependent variable -

**4. Observation:** When room temperature is increased, the metabolism of an animal increases.

Independent variable –

Dependent variable -

Hypothesis-

**5. Observation:** More brine shrimp hatch in waters with greater salinity.

Independent variable –

Dependent variable -

Hypothesis:

**6. Observation:** the thickness of annual growth rings in trees in greater when the amount of rainfall is greater.

Independent variable –

Dependent variable –

Hypothesis:

**7. Observation:** poking a skunk results in the release noxious fumes and chemicals

Independent variable –

Dependent variable –

Hypothesis: