

## Looking Closely with Loupes and Lenses

Dave Beutel, Laingsburg School District, Michigan

### BACK AND FRONT OF A LINCOLN HEAD PENNY

Date and location of mint

Lincoln memorial (and Lincoln), on reverse..Marian Anderson singing there in 1939

“VDB” on penny. FS on older nickel.

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### BACK OF A LEAF

Vein pattern, “loved” by nature, similar to rivers, circulatory system,.....

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### COLORED FUNNIES

Colors are made of dots of various colors. Purple is blue and red, etc.

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### NATURAL CLOTH (Wool, cotton, linen)

Patterns of the weave, a combination of efficiency, strength, feel and looks

Fibers that make up the threads

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### NYLON CLOTH (CHEAP)

Looks “plastic”, because it is oil based, like fishing line, plastics, gasoline, etc.

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### HORSETAILS, CONES/SPORES, AND THE TUBES IN THE STEM. LICHENS

Scouring rushes

Capillary action

Primitive plants

Reproduction with spores

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### SALT OR SAND CRYSTALS

Sand/glass relationship

Crystal combinations make rocks

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